

E. 1163/22

THE
FEMALE PHYSICIAN,
Containing all the
DISEASES incident to that SEX,
IN
Virgins, Wives, and Widows;
TOGETHER
With their *Causes* and *Symptoms*, their
Degrees of DANGER, and respective *Me-*
thods of PREVENTION and CURE.

To which is added,
The Whole A R T of
New improv'd MIDWIFERY;

COMPREHENDING
The necessary *Qualifications* of a MIDWIFE,
and particular *Directions* for *laying Women*, in all
Cases of *Difficult* and *Preternatural* BIRTHS;
together with the *Diet* and *Regimen* of both the
MOTHER and CHILD.

By JOHN MOWBRAY, M. D.

————— *Opiferaque per Orbem*
Dicor, ————— OVID. MET.

L O N D O N:
Printed for STEPHEN AUSTEN, at the
Angel and Bible, in *St. Paul's Church-Yard*. 1730.

THE FEMALE PHYSICIAN



Diseases Incident to that Sex

IN

Young Women, and Widows;
 TOGETHER
 With their Causes and Symptoms, their
 Degrees of Danger, and respective Me-
 thods of Prevention and Cure.

The Whole A R T of

THESE symptoms of MILDWINTER

COMPREHENDING
 The necessary Qualifications of a MIDWIFE,
 and proper Directions for her Behaviour, in all
 Cases of Difficult and dangerous PARTURITION;
 together with the Use and Rights of both the
 Mother and Child.

By JOHN MOWBRAY, M.D.

Author of the

London:
 Printed for STEPHEN AUSTIN, at the
 Sign of the Ship, in St. Paul's Church-yard, 1730.



*To all Learned and Judicious
Professors of PHYSICK, as well
as Ingenuous and Experienced
Practisers of MIDWIFERY.*

Most Excellent SOCIETIES,



Have generally observ'd,
that *Men* address their
WORKS to improper
Hands; *some* aim at *Person-*
ages too great, to regard them;
others stoop to *Men* too unlearned,
to defend them; *Some* again make
their *Court* and apply to Persons in
Vogue or in Place, and *others*
cringe and creep after *Purse-*
proud Patrons: But as I pursue not

the common Designs of DEDICATORS, so I have studied no subterfuges of *Flattery*, nor Flourishes of *Panegyrick* in this DEDICATION. I know, that, whatever my *Performance* may prove, a *substantial* WORK will stand securely upon its own Bottom, and make its way into the World, without any *secondary Helps*; whereas a slight *Defective Piece* will fall and be quash'd, tho' it should even *strut* with MAJESTY itself in its glaring *Front*.

Had I then presum'd upon any particular VOUCHER for the FEMALE PHYSICIAN, it would have look'd like acknowledging *Guilt* and seeking for *Defence*; Because *You*, and none else, are the *competent Judges* in Affairs of this Nature: GOD having entrusted

The Dedication.

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trusted you only with the *Lives* of Men; and you (under HIM) being the Sole *Preservers* of LIFE and the great *Distributers* of HEALTH, I have thought it my *Duty* to make this solemn Application to your *August Societies* in general; and in this manner to render you some small *Account* of the *TALENT*, which some of your selves have entrusted me with for *Improvement*.

In fine, your *famous Fraternities* being universally celebrated for encouraging of *Learning* and promoting *Ingenuity*, You are still the more highly entitled to my *Endeavours* in both respects; and I my self in all points of *Humanity* the more secure of your candid *Interpretation*. The *undertaking* then being yours by *Birth*, it has a Natu-

ral Claim to your *Care*; And it being the *Duty* of Men to provide for their *Off-Spring*, it has a peculiar Right to your *Patronage*. Wherefore, with all due *Deference* and becoming *Submission* to your *wiser Judgments*, I lay the DEDICATION as well as the WORK it self entirely at your Feet, in Hopes of your courteous *Reception* and benign *Tutelage* both at Home and Abroad: Upon which (in short) I beg Leave to Subscribe my self, with profound *Veneration*,

Your Eminent SOCIETIES,
Most Faithful, and
Most Obedient, Servant

John Maubray.

THE



THE
PREFACE
TO THE
READER.



AS the Study of *Physick* has differ'd in every Age, according to the prevailing Opinions and Ambiguous Determinations of *Philosophers*, so the Practice of *Midwifery* has also varied, according to the Judicious Experiments and successful Operations of *Professors*; until of late Years, by the many happy Discoveries and strict Inquiries made into the Secrets of Nature, and Natural Causes, these Healing and obstetricious *Arts* are so much improv'd and advanc'd, that, they now seem to be arriv'd at their very Height of Per-

fection: Infomuch that both the *one* and the *other* stand this Day upon as sure a Foundation, and as certain Principles, as most other *Sciences* do, which notwithstanding are not exempted from the Fate of *Casualties*.

THE Case then being so, it becomes all Men of Ingenuity and Integrity, to be also *Communicative* of such Things, as may tend to the Welfare of their Neighbours and to the Common Good of Mankind; since according to the Excellent *Poet*,

Scire tuum nihil est, nisi te scire hoc, sciat alter.

THIS was the Principle of the *Ancients*, who, as they discover'd the Natural Debility of the *Female Sex*, and that Women were not only Subject to all Diseases in common with Men, but also obnoxious to a vast many Distempers peculiarly singular to themselves, were first mov'd to write particular *Books*, and respective *Treatises*, upon these Heads: The most wise and divine *Hippocrates*, first breaking the Ice, after him *Diocles*, next *Aetius*, and at last many *others*; For the more Learned and Ingenious that any one found himself in his respective Age, the more readily he exercis'd himself in these difficult Points.

BUT now a-days *Women* may well complain, and cry out with *Soranus*, “ O male
“ *Occupatum virorum Genus, occidimur nos,*
“ *non Morimur: Et ab illis, qui inter eos*
“ *peritissimi existimantur, perperam curata,*
“ *vos vero de qualibet vel levissima vestrarum*
“ *Affectionum*

“ *Affectionum, Libros ex Libris facientes;*
 “ *Bibliothecas voluminibus oneratas, de Nostreis*
 “ *inter ea diris ac difficillimis Cruciatibus,*
 “ *nulla vel exigua, & ea quidem satis osci-*
 “ *tanter mentione factâ: That Men, in short,*
 study their own Good, and take more Care of
 Themselves than of the *Women.*

BECAUSE then there are so many
 Faults and Defects in this part of *Physick*; in
 that the *Antients*, by reason of their precise
 Gravity, rendred their *Works* either obscure, or
 at least difficult to be understood: As *some* of
 the more *modern Authors* have, treated them
 but Partially and Defectively in most respects;
others but transiently and indifferently, or as if
 they were otherways employ'd: *Some* again
 darkly and briefly; *others* so confusedly and
 prolixly, that we may justly say to them, as
 the *Lacedemonians* did to the *Samian Legats*
 of old; “ *Prioris orationis vestrae partis su-*
 “ *mus oblitus, postremam ob primæ oblivionem*
 “ *non intelleximus: We have forgot the Be-*
 ginning of your Discourse, and for that reason,
 cannot understand the latter Part.

THESE being the Reasons of this Un-
 dertaking, I shall trouble you with no farther
Apologies in its behalf, save only that I thought
 it my Duty, notwithstanding the Considerable
Charge and immense *Labour*, not only so far to
 endeavour to imitate my *Predecessors*, but also
 to deserve well of Humane Kind, and parti-
 cularly of *English Women*: FIRST by col-
 lecting these things, which I have found clearly
 written by the most approved *Authors*, together
 with

with what I have conceiv'd to be true and Rational by my own painful Study, frequent Speculation, and assiduous Practice ; and SECONDLY by publishing this *Praxis* and *Analysis* of Womens Distempers, as they are accurately, tho' succinctly comprehended in this small *Volume* : Yet not so briefly neither, but that most Things are consider'd and explain'd for removing *Obscurity* ; nor so prolixly, that any Head is swell'd with Trifles or empty Words : And that not only in our vernacular *Tongue*, but also in a certain middle *Style*, adapted to the Capacity of the meanest *Reader* ; so that if it be possible, where the *Flowers* are thinnest Sown, there the *Fruit* may appear the thickest ; Because I have all along consider'd this to be no Work of *Eloquence*, but of *Midwifery*, or *Physick*, or *both* together, if you please, in which I have studied the common Good, but no vain Glory.

IN composing the WORK, I have follow'd such Methods as seem'd to me the most conducive towards its Use and Design, and insisted only upon such *Topicks*, as can be most serviceable to the World, and absolutely necessary in the Practice of either of these *Arts* ; without touching upon any of the pompous Superfluities, with which *Physick*, as well as other *Professions*, is now a-days over-run and embarras'd ; The *one* I apprehended to concern my Integrity, and the *other* only an empty Applause. But that you may be at no Loss in conceiving the Regularity of my Method, because of the variety of Subjects to be met with, I shall here delineate or draw out the *Lines* of the WORK, and
give

give you some distant *Idea* of it, if possible, by a general Hint upon every *Part* or *Section* of the *Book*, *Viz.*

IN the *first Part*, I have explain'd the History of the *Formation* and *Animation* of Man, together with the *Maturation*, *Nutrition*, and *Position* of the Infant in the Womb; to which I have subjoin'd the *Anatomical* Account of the *Membranes* and *Waters*, as well as of the *After-Birth* and *Navel-String*. I have likewise in this place previously set forth the Dignity and Excellency of *Man*, together with the Faculties of our *Souls*, and the Qualities of our *Bodies*; And, having initiated the whole with the Natural Proofs of a *GOD*, and a short Dissertation upon *Nature*, I hope none will take that amiss, because my Belief in the *one*, and the small Knowledge I have acquir'd of the *other*, are to be my *Guide* throughout the Course of my Life, as well as my *Directory* in the present Performance.

IN the *Second Part*, I have not only explain'd the Natural *Philosophy* of the *Maiden-State*, and set forth the Passions, as well as the Diseases familiar to *Virgins*; but also defin'd the Power of *Imagination*, and added the Natural Reasons for the various *Likenesses* of Children.

IN the *Third*, I have expounded the Mystery of *Conception*, together with its Diagnostic Signs; I have directed the *Regimen* of the Pregnant Woman, and particularly set forth the various *Symptoms* of the Months of Gestation, together with the *Acute Diseases* incident

dent to her in that Time. I have in the same place insisted at Large upon *Miscarriage*, and explain'd at length the *Mystical Theory* of Birth in general.

IN the *Fourth Section*, I have defin'd the *Art of Midwifery*, and the Contemplation of its *Theoretical*, as well as its *Practical* Knowledge: And, that *Women* practising this *Art*, may not mistake me in what is said or recommended to them, I have also addressed my self to *Men* professing the same *Science*; and, with all imaginable Impartiality, told them both their *Faults* and their *Duties*, however without any intended particular *Reflection*. To which I have subjoin'd a compleat *Anatomical Description* of the Parts of *Generation* proper to *Women*; together with the Natural History of the *Matrix* and its amazing Faculties.

IN the *Fifth*, I have ingenuously laid open the whole Mystery of *Midwifery*, as to all Sorts of BIRTHS, whether *Natural* or *Preternatural*, and faithfully laid down the Fundamental Principles and most certain Rules of this *Profession*; and that not only according to the best *Notions* of my own Application and Study, or the real *Dictates* of my proper Practice and Experience; but also according to the most ingenious Precepts and infallible *Maxims* of the ablest and most polite *Professors* of this excellent *Art*, and that also according to its newest and latest *Improvements*: And in these *Cases*, I have neither fear'd the Invectives of the *Æmulous Zoilus*, nor regarded the Snarlings of the reprehensive *Memus*: For Wise Men are
not

not any longer to be entertained with *Ænigmas*, since GOD hath said, *Fiat Lux*.

IN the *Sixth Part*, I have not only prescrib'd the due *Regimen*, and provided for the Safety and happy *Recovery* of the *Child-Bed-Woman*, but also taken a suitable and corresponding Care of her *Babe*; As I have farther insisted particularly upon the various Disasters incident to both *Mother* and *Child*, in their respective tender Conditions of *Child-Bed* and *Infancy*.

IN the *Seventh*, I have dilucidated the *Philosophical History* of all the different Sorts of *Preternatural Conceptions*, as well as *BIRTHS*; and insisted at large upon the Theme of Women's *Sterility* or *Barrenness*.

IN the *Eighth* and last *Section*, I have not only defin'd the *Widow-State*, as far as it concern'd my Purpose, but also diligently pursued the *Subject Matter*, and traced down the Particulars of their common *Grievances*.

THESE, I say, are the general Heads of the WORK, which are all again sub-divided into their proper respective Particulars; and consequently every general *Head* or *Section* assign'd its own relative *Chapters*, for the singular Benefit and more easy Comprehension of the *Reader*. And these *Chapters* consisting of 130 in Number, I have, with respect to every singular *Distemper* mentioned in them, FIRST, defin'd the Nature of the *Disease*; SECONDLY, accounted for its *Causes*; THIRDLY, I have given the *Diagnostick Signs* or *Symptoms*; FOURTHLY, the *Prognosticks* or Degrees of Danger;

Danger; to which I have FIFTHLY and lastly added the Method of *Prevention* in many Cases, and That of CURE in All: So that there is almost not one *Disease* which can affect the Woman from her *Birth* to her *Death*, in *Child*, *Maiden*, *Wife*, or *Widow-hood*, whose *Essence*, *Species*, *Differences*, *Causes*, *Signs*, and *Prognosticks*, we have not sufficiently clear'd-up.

ALL these Things I have endeavour'd to be most particular in, to the end that any *Woman*, who reads, so as to be conversant with this B O O K, may know before She sends for her *Physician*, not only her *Distemper*, but also the *Danger*, with which she is threatened upon every Sickly occasion. And in these Things I flatter my self that this W O R K will prove Acceptable, where such a Number of *Diseases* and *Symptoms* are set forth in so clear a Light, that any Person, making use of their Eyes and Reason only, without being any ways vers'd in the Practice of *Physick*, or *Midwifery*, may evidently see, perceive, and by Experience find, every individual *Case* to answer these Ends, and the whole to correspond exactly with its *Title* and *Contents*.

BUT upon the whole, if here and there a brief *Philosophical* way of Reasoning has crept in, I would have you consider, that it could not be avoided; because the *Proofs* relating to Natural Things are sometimes taken from very minute *Instruments*; And that the Design of such an *Interspersion*, is only to assist your Understanding, and conduct your Thoughts through

through the WORK. However in such *Cases* the *Reader* may go on, or pass by what does not suit with his *Taste*, as he pleases. Again if here and there, I have retain'd a *Term of Art*, which the common *Reader* may call a hard Word, I declare it is out of no Design to amuse any one, but out of mere Necessity, since otherways I should have been ridiculously singular, and far less understood: In the mean time I have taken what Care I could to explain the most, or at least the most requisite of *These*, in-somuch that whatever *Words* or *Sentences* of this Kind are not fully interpreted, you may slip over, without losing any thing Material of the Purport of the Matter, such Things concerning the *Practitioner* more than the common *Reader*.

HOWEVER yet, if the Measures I have pursued in handling this uncultivated *Subject*, should not appear so exactly Methodical as some of you may expect, I shall only say for *Excuse*, that, as it belongs to hard Labour to cut out new Paths and Ways thro' *Woods* and *Desarts*, and where *Guides* are wanting, to find out the shortest *Cut*; so it is only by frequent *Travelling*, that such *Roads* can become smooth and easy, however exactly plan'd. Again farther, I would have you also to consider the Difficulty of the *Task*, to contract Much in a Little; to omit Nothing which ought to be animadverted; to join Perspicuity with Brevity; and after all, finally to reduce the whole to the certain *Precepts* of ART.

I have incessantly perus'd the vast *Volumes* of others, *Ancients* as well as *Moderns*; and whatever may be found there variously dispers'd, over-strain'd, or collected profusely, without either Order, or Coherence, you'll find here manifestly disposed, and neatly contracted in this small *W O R K*. I have sever'd the *Grain* from the *CHAFF*, winnowed the *Seeds* from the *HUSKS*, and purged the *Gold* from the *O R E*, to the end that I might again successfully *Sow* what I have thus laboriously *reaped*; and digest all Things into such an easy and clear *Method*, that you'll be at no Loss here for what you want, but may turn to it at once, whatever the *Case* may be; you'll read nothing twice, nor will you fall into any *Trifles*, which might either confuse, or detain you.

B U T that I may not be misconstrued or misrepresented here, give me Leave to affirm that the Design of this *W O R K*, is not to reprehend or find Fault, with any former *Writer's Performance*; but only to render these Things, which *others* have either treated negligently, or indifferently, confusedly, or obscurely, the more Clear and Evident.

T H I S, candid *Reader*, being the Design as well as the Reason of my *Undertaking*, according to the *Fruit* you receive by it, Pray, repress the Minds of the Invidious; and according to the Judgment you make of its Worth, let it stand or fall in your Esteem. Not that I am so vain in the *interim* to imagine, that the Work can stand upon the Foot of its own *Merit*; and far less can I expect that it will
escape

escape the ordinary Fate of *Censure*: No, I shall take it well, considering its *Imperfections*, if it undergoes no worse Fate, than what is common to *Books*; especially considering that it is no ways set off with a great *Figure*, under the splendid appearance and modish Trappings of flourishing *Hypotheses*, so common among our *Modern Writers*.

THERE are many Things altogether New in our *Midwifery*, which I would have none rashly to stumble at, tho' I know that *New Opinions* are always suspected and generally opposed, merely because they are not already *Common*: But as I am not in any respect to press my *Notion* of Things upon the Belief of others, so I desire not to establish any *Maxims* of mine in other Peoples *Opinions*, farther than they think fit. I know the Relish of the *Understanding*, is often as different as that of the *Palate*; Hence it is that *some* Men condemn, what *others* approve; and *some* despise what *others* admire: Yea such is the Uncertainty of Men's *Judgments*, concerning the Excellency of Things, that no *Nut* of Learning was ever yet open'd, whose *Contents* were allowed by all to be pure *Kernel*: And no more has any *Truth* been yet discover'd, either in *Physick* or *Midwifery*, which has not been question'd, and the *Detector* exclaim'd against as a pedantick *Innovator*: But all that I shall say to these Things is, that, as *Antiquity* will never protect an *Error* in Judgment, so *Novelty* shall never prejudice me against *Truth*, whether of my own or other People's *Invention*.

UPON the whole, I would in fine recommend my self to the candid *Reader's* Benevolent and Charitable Opinion, and if in any particular Point or Respect (because we are but *MEN*) I may not have had the Happiness to please, or to give Satisfaction, Pray impute it not to *Sloth* or *Idleness*, but to *Peregrination* and *Travelling*; in which it may be well suppos'd that *Studies* are too often interrupted. Remember also that of *Pliny*, "*haud ullo*" "*in genere veniam Justiorem esse, si modò*" "*mirum non est, Hominem Genitum non*" "*omnia Humana novisse.*" For as none of us can do all Things, nor is sufficient for All; so it is Natural for *Man* to fall, to err, and to be deceiv'd: And as we see some *Blemishes* in the most beautiful *Bodies*, so there is nothing altogether *Perfect*, among the Works of Men.

Farewell.

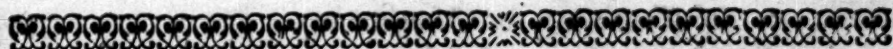
From my House in New-Bond-street, over against Benn's-Coffee-House, near Hannover-Square. 1724.

J. M.





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THE FEMALE PHYSICIAN.

SECT. I.

CHAP. I.

Of GOD.



REASON, and the mere Contemplation of *Nature* (abstracted from the Light and Assistance of *Revelation* or *Faith*) afford us sufficient convincing Arguments, for the *Existence* of this great and incomprehensible **B E I N G**; as *Heathens* themselves do testify.

AC C O R D I N G to *Plato* (that most excellent *Heathenish Divine*) Philosophical Demonstrations are the only *Catharticks* (i. e. Purgers) of the *Soul*; being the most proper means to cleanse it from *Error*, and give us an exact Relish of Sacred *Truths*. Wherefore I shall strictly confine myself to *These*, in proving the **B E I N G** of this *Existence*, from the *Maxims* of all the four principal *Sects* of *Heathen Philosophers*; which

I shall discuss in the briefest *Terms*, by only touching upon a few of their respective *Proofs*; viz.

THE *Naturalist* insists chiefly upon three Heads; That of *Motion*, the *Final*, and the *Efficient Cause*.

UPON the Axiom of *Motion*, that *Señ* could not exceed, or go beyond the *Primum Mobile* among *created Beings*; and therefore allows, that there is something *above* it, which moves *itself*, and is not moved by *Another*.

UPON that of the *Final Cause*, they could find no *created Being* capable of directing that *Nature*, which directs and appoints all *Creatures* to aim at some peculiar *END*; and thence conclude, that this *Nature* is directed by something *superior* to itself.

UPON that of the *Efficient Cause*, they confess, from the many *Vicissitudes* of *created Beings*, that they've all had a *Beginning*: and (because no *Beginning* can be without an *Efficient*) acknowledge, that something more excellent than all *created Beings*, hath created them.

THE *Metaphysician* useth a vast Variety of sublime *Arguments*; whereof I shall only give a few Instances: viz.

I. THAT every *finite Being* must needs proceed from something else, limiting it in that *Finiteness*, in which its *Nature* consists.

II. THAT all *Multitude* must proceed from *Unity*, as the *Motions* of the *lower Orbs* proceed from that of the *one highest*; or as the many particular distinct *Actions* and different *Motions* of the *Man*, proceed from (their *Superior*) the *SOUL*.

III. THAT the *Subordination* of the *Creatures*, one serving another, and all concurring to the *Common Good*, must needs proceed from the *Disposal* of some most wise *GOVERNOUR*.

IV. THAT the wonderful and incomparable *ART*, observable in the *Make* and *Form* of every the minutest Part of the least and most despicable *Creature*, must necessarily proceed from some very great and omnipotent *ARTIFICER*.

V. THIS *Señ* acknowledges also the *Immortality* of the *SOUL*, as *Cicero* witnesses; because it is an *immaterial*



erial Substance, and independent of the *Body*: And consequently they allow it to proceed from an *immortal Author*, and to return to the *same*, after a *Dissolution* from the *Body*.

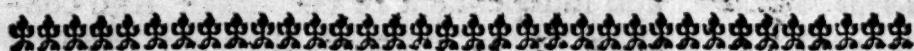
A S to the *Moralist*, his way of *Reasoning* is plainer to our common Capacities.

I. H E proves this *Argument* from the *natural Disposition* and *Propensity* of the worst of Men, even *Atheists* themselves, upon the Approach of *Death* or any heavy *Calamity*, to acknowledge some superior divine Power; as *Seneca* witnesseth of *Caligula*, &c.

II. F R O M the *ultimate End* and chief *Good* of Man; which (according to *Plato*) is nothing *Terrestrial*: Our *Souls* being *insatiable* in this *Life*, have a constant *Tendency* to that particular *END*, for which we are *created*; which (in his Words) consists only in being *inseparably* united to *G O D*.

III. F R O M *Virtue* and *Vice*, the *Rewards* and *Punishments* due to these from *Nature* and *Reason*; which agree with *Equity* and *Justice*, that they, who *live well*, should be *rewarded* with this their *ultimate End* and *final Felicity*: And those who *live otherwise*, should be *punished* by the *Loss* thereof for ever. Thence they (of consequence) acknowledge, that there must be a just and powerful *JUDGE*, above all *created Beings*, to inflict this impartial *SENTENCE*.

T H E *Mathematician* acknowledges *That* to be some *Being* superior to all others; whose *Center* he finds every where, and whose *Circumference* he can limit or discover no where. But because this *Set* borrows the better Part of their *Proofs* from the other *three* mentioned, I shall go no farther; designing nothing but *Brevity* thro'out this *Work*, especially upon a *THESIS* so manifest as *This*: Which indeed I should not so much as have touched upon, considering how elegantly and copiously many very *learned Divines*, and other eminent *Writers*, have treated that *Subject*; were it not that some subsequent *Hypotheses* depend immediately upon it. Wherefore I proceed to



C H A P. II.

Of NATURE.

HOWEVER *extensive* this Word NATURE may be, and whatever *secondary Definitions* it may admit of ; it is (in effect) nothing else than the *Denouncer* of the Divine Will and Pleasure, the *Efficient CAUSE* of natural *Works*, and the *Conservant* of real *Existences* : Or, the *Order* and *Series* of Sacred Works, obeying the Divine Will, Power, and Commands. At least I think all other *Definitions* of this Word, taken in whatsoever Sense, may be *reduced* to *These* following ; *viz.*

NATURE is the implanted and innate *Quality* of Things.

NATURE is the *Faculty* and *Propensity* of every Mind.

NATURE is the *Mixture* and *Temperature* of the four Elements.

NATURE is the Philosopher's *Axiom* of Motion and Rest.

NATURE is *that* which giveth *Form*, by a *specifick* Difference, to every thing.

WHICH *Power* (in either Definition) can only be ascribed to that Great GOD, whose *infinite Existence* I've been hinting upon ; Who is the *Author* of Nature and *Framer* of the Universe ; who by his own *Breath* and *Word*, without any *material Help*, and at his own *Will* and *Pleasure*, created all Things. In whom all Things *live*, *move*, and have their *Being*. By whom a *vivacious Faculty* is infused through all Things ; so as that (by and through HIM) all Things subsist of their own *peculiar Natures* and *natural Qualities* ; and by these *implanted Qualities* increase, maintain, and defend themselves : And *that* so, that in such an immense *Universty*,
and

and such a vast *Variety* of Things, nothing is indeed idle, useless, or unprofitable. Nothing is made rashly, fortuitously, or in vain ; but every Thing appears appointed to some certain *Use* and *Purpose*, and determined to some settled *Course* and *Sphere* of ACTION : Every Being answering the END of its *Design*, and the *Design* of its CREATION.

A S Man was set on the *Theatre* of this World, to the End that he might admire, delight, and confide in GOD his great Creator ; so was the *Humane Body* made for the *Divine Soul*, and the *respective Members* for the *Body* : which all voluntarily concur in the Discharge of their *peculiar Functions*, for the Benefit and Use of the WHOLE.

AND so was every *Stem* endued with its own *Faculty*, and every *Creature* with its own *Nature* ; which made *Aristotle* * most pertinently say, “ That there’s nothing so minute in the *Nature* of Things, nothing so abject or despicable, but may reasonably afford Men something of *Admiration*.”

NOW, I think, we may be soon brought to this *Admiration*, when we only view those Things which are so evidently exposed to our Eyes : such as the *Elements*, the *Heavens*, the *Rising* and *Setting* of the *Sun*, *Moon*, and *Stars*, the *Diurnal* and *Nocturnal Vicissitudes*, the four *Seasons* of the Year, comprehending the two *Æquinoxials* of Spring and Fall, and the two *Solstices* of Summer and Winter ; by whose *Decourse* or *Descent* *Grass* fades, and *Herbs* decay ; and again, by their *Ascent* or *Influence*, spring up and revive.

AND again, when we consider the *Animals*, the *Faculties* and *Propension* of their respective *Natures*, how they are endued with peculiar *Sense*, because denied particular *Reason* ; and how wisely they are all dispos’d, some inhabiting the *Waters*, some enjoying the free *Air*, and others possessing the *Desarts* ; some reptile and creeping, some *gracient* and walking, some *solivagant* and wandering, some

* De Partib, Anim. lib. 1. cap. 5.

wild and fierce, and others innocent and tame: I say the marvellous and inimitable *Artifice* of *Nature* in these, and all other *natural Works*, is not only to be admir'd; but also the *Majesty*, *Glory*, *Fullness*, and *Magnificence* of the Great CREATOR and Institutor of this Nature is to be most highly ador'd; in whom all things originally center, as their common *Source* and *Divine Fountain*, and to whom all things are finally reduced, as the *Primigenous Essence* and *Archetype* of NATURE.

CHAP. III.

Of MAN.

MAN, to whom all *sublunary Beings* were subjected, is most excellently qualified, far above all other *Creatures* of this World: In him is not only the vegetative Life of *Plants*, and the sensitive Life of *Animals*, but also the *Angelical Reason*, the *Divine Understanding*, the true *Conjunction* and glorious *Possession* of all Things: He is not only endued with *Reason* and the *Gift of Speaking*, but also with a *Mind* and a SOUL, which participates of a *Celestial Nature* and *Divinity* itself; which can relate to the Nature of nothing else, and be compared to none but GOD himself: In and thro' whom he has a *Similitude* with all things, an *Operation* with all, and *Conversation* with all: He symbolizeth with all Matters in proper *Subjects*; with the *Elements* in a fourfold Body; with *Plants* in a vegetative Virtue; with *Animals* in a sensitive Faculty; with the *Heavens* in an *Etherial Spirit*; with *Angels* in *Wisdom* and *Understanding*, and with GOD himself (as it were) in containing and comprehending all things, except the *Divine Being*. Hence nothing can so expressly represent GOD as the *Soul* of Man, by which he is dignified and raised to the very *Image* and *Similitude* of himself. And in MAN the mirificent *Wisdom* shines the more conspicuous-

ly; in that the whole *World*, and the *Fabrick* of all its Contents, however concise and artificial, can in no respect compare with the noble Structure of this *Microcosm*, MAN. It is so marvellously concise, and so wonderfully artificial, that it seems no otherways, than as if the MAKER (designing *this* for his *Master-piece*) would have his chief Glory, Esteem, and Reputation to depend upon it, and derive itself from *Hence*; or, as if the Maker (designing this for one signal Instance of his Divinity to Men) would have us brought, merely by the Understanding and Knowledge of ourselves, to the true Knowledge and due Reverence of HIMSELF, our great ARTIFICER.

THAT we may be the more duly and sensibly affected towards *him*, and the more admire and reverence the *Wisdom* of his Nature, as he bountifully produced all things for the Use and Utility of MAN; so he most appositely disposed the *Herbs* of the Field, some to our *Nourishment*, some to our *Remedies*, and some to both *Necessities*: assimilating and assigning them to our singular *Members*, so that their *Powers* and *Virtues* are *physically* convey'd to such *Parts* of our *Bodies*, as they are adapted to by *Nature*.

AND in the same manner he imbued the *Roots* of the Ground with such *natural Qualities*, that they by their respective innate *Faculties*, succour and relieve those *Members*, to which they are *specifically* destinated; and such *Members* sensibly attract and imbibe from them, not only wholesome *Nutriments*, but also healthful *Remedies* peculiarly appropriated to themselves by *Nature*.

BUT the immortal SOUL, which is only peculiar to MAN, whereby he so perfectly assimilates and resembles GOD; and its *Gifts* and *Graces*, whereby he excels and out-shines all other sublunary *Creatures*; is more properly the SUBJECT of the *Divine*, than the *Physician*; wherefore I shall but touch it transiently.



C H A P. IV.

Of the SOUL.

THE SOUL is a certain *divine Light*, created after the Image of GOD; figured by a *Seal*, whose Character is the *eternal Word*.

THE SOUL is a certain *divine Substance*, individual, and entirely present in every Part of the Body, depending only upon the Power of Him, who is the ultimate END, and efficient Cause of all things; whose Body (according to Plato) is *Truth*, whose Shadow is *Light*, and whose Name is GOD.

AND this divine Substance of *Light*, the SOUL, immediately proceeding from that divine Fountain of all Things, GOD, (according to the Opinion of the Platonists) is join'd, by competent Means, to the grosser Matter of the Body. Which Means these Heathens account for in manner following: viz.

THE SOUL, in its Descent, is involved in an *etherial Body*, which they call the *celestial Vehicle*, or *Chariot* of the SOUL; thro' which Medium, by the Command of GOD, (who is the Center of the World) it is first infus'd into the middle Punct of the Heart, which is the Center of the Body; whence it is diffus'd thro' all the Parts and Members of the Body, joining itself to the natural Heat. As a Spirit, generated by Heat from the Heart, it plungeth itself into the Humours; and thus inhering in all the respective Parts, it becomes equal in degree of Proximity to all the Members.

THUS the immortal SOUL is, by an immortal Engine, convey'd to, and included in the mortal Body: But when by Diseases, or otherways, these Mediums (the Heat and Humours) begin to dissolve, the Soul recollects itself, and flies back betimes to its first Receptacle, the Heart: When the Spirit of the Heart also fails, the
Heat

Heat extinguishes, and the *Spirit* leaves the *Man*; He dies, and the *SOUL* flies away in its *original Vehicle*: When the *Body* returns to Earth, whence it came, and the *Spirit* to *GOD*, who gave it a *sacred Nature* and *divine Offspring*: which *Spirit* judging the *SOUL*, if it has liv'd ill, subjects it to some general and some particular *Torments of Hell*, abandoning it also to the *Pleasure of the Devil*: Whereas, if it has *done well*, it mounts its *celestial Chariot*, rejoicing together with the *Spirit*, and passes freely to the *Choirs of Heaven*; where it enjoys all its pure *Senses* and *Faculties*, the perfect *Knowledge* of all things, a perpetual blessed *Felicity*; and at last, the *divine Vision*, the *Possession* of the eternal *Kingdom*, &c.

THUS far I have prosecuted the *Platonick Doctrine* of the *SOUL*; so that even by *This*, the gross *Opinion* of such as deny the *Existence* of so *divine a SPARK* in *Man*, may be confuted.

AND *this* being sufficient for that purpose, I need not introduce any *Christian Arguments* to second it; which, however important, are commonly deem'd light by an obstinate *Sett* of Men. Wherefore I shall only add, that from the *Disparity* of *Manners*, *Affections*, *Dispositions*, *Capacities*, *Judgments*, *Opinions*, and *Passions* of Men, it appears most probable and evident, that every one of us is individually indued with a *SOUL*, and that with a proper *SOUL*, peculiar to our respective *Bodies*, according to the wise *Proverb*; *So many Men, so many Minds*: as well as *Horace's* * *Saying*,

" *Millia, Quot Capita vivunt, totidem Studiorum.*

— And *Persius* † says,

" *Mille hominum Species, & rerum discolor Usus:*

" *Velle suum cuique est, nec voto vivitur uno.*

TO which Assertion the great Prophet *David* assents, in that *GOD* fashioned and made the *Hearts* and *Minds* of Men one by one, enduing them with peculiar *Dispositions*, and assigning every *SOUL* its proper natural Con-

* Lib. 2. Sat. 1.

† Sat. 5.

ditions. Hence Solomon * says, *I was a witty Child, and had a good Spirit; yea, rather being good, I came into a Body undefiled:* That is, adapted to the *Disposition* of his SOUL. As we see some *Torches* or *Candles* burn brighter, and some *Fuel* cast more *Heat* and *Light* than others; so the *Splendour* of every SOUL shines in a different way, and produces different *Distinctions* of *Minds*: as is evident in *Youths*, who (however accurately taught, and painfully instructed) are not equally capable of learning *Arts*, *Discipline*, or any sort of *Erudition*.

BUT notwithstanding that some curious *Physicians* (who have strictly scrutiniz'd the Works of Nature) would have the SOUL to center in the BRAIN, whence all its *Senses*, *Faculties*, and *Actions* proceed; yet some *Philosophers* have justly assign'd the Center of the HEART to its Residence: which Doctrine is also approved by the wise Solomon †, saying; *Keep thy Heart with all Diligence, for out of it are the Issues of Life.*

HOWEVER yet, if any should still obstinately persist in denying the BEING of the SOUL, I advise such to go no farther, but look into *themselves*, and call their own *Minds* to Counsel; for even there they will have a full *View*, not only of its BEING, but also of its supernatural *Excellency*: If they but seriously weigh the eximious *Gifts*, and unlimited *Faculties* of Nature, together with the egregious *Ornaments* of Reason, Understanding, Judgment, Memory, and many other Accomplishments, with which every *Mind* is abundantly endued; they will clearly perceive something of a superexcellent Nature, and supernatural *Quality* in themselves; which is nothing else but what I call the SOUL, and which is also of a more noble and excelling *Substance*, than any corporeal Matter liable to *Corruption* can be.

THIS Being, only and alone, vivifies, rules, and governs the *Body*; furnishing it with innumerable *Actions*, and exercising it with as many curious *Offices*. Hence, from its manifold *Effects*, and different *Opera-*

* Book of Wisdom, 8. 19 and 20. † Prov. 4. 23.

Chap. 4. Of the SOUL.

II

tions, it has various Appellations, according to St. Augustine's Saying: "*Cum Corpus animat, Vitâq; imbuat, Anima dicitur: Dum vult, Animus: dum Scientiâ ornata est, ac Judicandi peritiam exercet, Mens: dum recolit ac reminiscitur, Memoria: dum ratiocinatur, ac singula discernit, Ratio: dum Contemplationi insistit, Spiritus: dum Sentiendi vim obtinet, Sensus.*" Which are all the principal Functions of the SOUL, whereby it demonstrates its Power, and performs its relative Offices. In the Execution whereof, St. Cyprian asserts, that the SOUL makes use of the Body, as the Workman does of the Mallet, Hatchet, or Anvil: tho' (I think) the Simile may be drawn much nearer, the SOUL being inclosed and dwelling in the Body, as the Fish or the Snail in the Shell; without which Receptacle, or Rampart of Defence, it cannot subsist: Which is evident in that, as soon as the Body labours under any Grief, the SOUL is also affected; not with a primary Affection (as some would have it) but by a Law of the most strict Alliance, and nearest Affinity; and hence it is, that the Vices and Virtues of the one are transus'd, and flow into the other.

THIS is the only reason why, when the corporeal Organs or Instruments are vitiated or impeded, the SOUL cannot explicate its own Faculties, according to the Words of Solomon*; *The corruptible Body presseth down the Soul, and the earthly Tabernacle weigheth down the Mind.* Which Truth may serve to obviate two Objections; viz. That of Childrens being destitute of the SOUL, and that of the SOUL's growing up with Youth, and declining with Age, or Sicknes: Since, tho' it less displays itself in Infancy, Sicknes, and Dotage, yet it still is, and continues furnished with its proper Faculties, and that from the Beginning of Life, until its End; neither does the SOUL in its Substance ever suffer the least Diminution, but only by the Ineptitude of the Instrument or Organ, it may be hindred in the Discharge of its Functions, and Execution of its Offices.

* Book of Wisdom, 9. 15.

AND tho this *divine Substance* can contract nothing of *Vice, Spot, or Contagion* from the *Concretion* of the corruptible *Body*: yet as a thick *Cloud* obscures the *Sun-Beams*, and overcasts its *Light*; or, as by holding a *versicolour Glass* to our *Eyes*, Matters appear *different* from what they really are: So the *Intemperature* of the *Body* obscures the *Light of Reason*, and overshadows the *Intellects* of the *Mind*, which of course obstructs the *Functions* of the *Soul*. Hence it is, that a *delirious* or *drunken* Man thinks he sees double, or *two things*, tho' one be the only *Object* of his *Eyes*: And as, for this reason, *melancholick* Persons imagine *Absurdities*, and feign *Dreams* to themselves; so *chole-ric* Persons grow insensibly *hot*, and are suddenly *incensed* by the *Fumes* of *noxious Humours* oppressing the *Brain*.

BUT there is another *Sett* of *Miscreants*, who don't so much deny the *Existence*, as the *Immortality* of the *Soul*. This I esteem a Piece of the grossest *Impiety*, to think that *spiritual Substance* *Mortal* and *Frail*, which is inspir'd in *Man* by the *Divine Will* and *Command*, proceeding immediately from the very *Substance* of *God* himself: Since if *Man* be made after the *Image* of *God*, to express his *Similitude*, he must needs participate of his *Nature*, and consequently be a *Fellow-Sharer* of *Eternity*: And if the *human Soul* be *Partaker* of the *divine Essence* or *Substance*, as *God* is *eternal* and incapable of *Decay*, so it must needs be *eternal*, and free from all *Corruption*.

MOREOVER, *God* form'd and made all other *Things* for the sake of *Man*, but *Him* he made for his own sake, and therefore like unto *HIMSELF*; for which reason, he was pleas'd to agglutinate *Immortality* to *Mortality*, and *Divinity* to *Humanity*: By which Means, the *divine NATURE* incorporates, as it were, with the *human*, and the *human* is united to the *divine*.

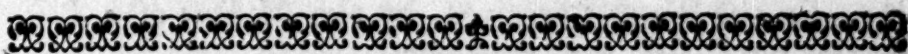
HENCE we may clearly see how marvellously *God* has been affected towards us from the *Beginning*; how much he delighted in us, and desired the entire *Fruition* and

Chap. 4. Of the SOUL

13

and full Enjoyment of our perpetual *Familiarity*, and eternal *Fellowship*; which *Truth CHRIST* * (the Wisdom of the *Father*) confirms by his own *Testimony*.

AND such is still the great Love and Propension of GOD towards *Man*, that all Things (thro' his *Grace*) are communicated to *him* by his only *SON*; || and that more especially because we are conditional *Sharers*, equal *Inheritors*, and *Joint-Heirs* with him, agreeable to the † *Apostles Phrase*; and whatever is express'd in *CHRIST*, may also be in *Man*: Since as *he* is *eternal*, and lives for ever, so *Man* (by his *Grace* and *Merits*) does the same; for *he* having sufficiently bruised *Satan's Head*, led *Captivity Captive*, and conquer'd *Death*, rose again, and became the *Prince* and *Captain* of so glorious a *VICTORY*, that all *Men*, by virtue of that *Triumph*, might be raised up again the Last Day, and that to participate of an *IMMORTALITY* of *Welfare* or *Woe*.



CHAP. V.

Of the FACULTIES of the SOUL.

PLATO, *Alcinous*, and many other learned Men, do agree, that the *heavenly Spirit's Composition*, mixing *Fire*, *Air*, *Earth*, and *Water*, made of them all, put together, one *BODY*; which they subjected to the Service of the *SOUL*, assigning the several *Provinces* of the one, to the sundry *Faculties* of the other: To the meaner of them, mean and low *Places*; as to *Anger*, the *Midriff*; to *Lust*, the *Womb*, &c: but to the more noble *Senses*, the *HEAD*, as the *Tower* of the whole *Body*.

AS they divide these *SENSES* into *external* and *internal*; so they subdivide the *external Senses* into *five*: To which are allotted as many proper *Organs* or *Subjects*, being so

* Prov. viii. from 22, to 32.

|| Gal. 4. 6.

† Rom. viii. 17.

order'd;

order'd, that they which are placed in the more eminent *Parts* of the *Body*, have the greater Degree of *Purity*.

FOR the *Eyes*, placed in the uppermost part, are the most *pure*, and have an Affinity with the Nature of *Fire* and *Light*. The *Ears* have the second Order of *Place* and *Purity*, and are compar'd to the *Air*. The *Nostrils* take the third Order, and have a middle Nature betwixt *Air* and *Water*. Then the *Organ* of *Tasting*, which is *grosser*, and most like to the Nature of *Water*. And, lastly, *Touching* being diffus'd through the whole *Body*, is compar'd to the *Grossness* of *Earth*.

AND of these, the more *pure SENSES*, are those which perceive their *Objects* farthest off; as first *Seeing*, then *Hearing*, then *Smelling*, which are all more pure than *Taste*, which doth not perceive but what is *nigh*: whereas the *Touch* perceives *both Ways*; it perceives *Bodies nigh*: And as *Sight* discerns by the *Medium* of the *Air*; so the *Touch* perceives, by the *Medium* of a *Pole*, *Bodies hard, soft, dry, moist, &c.*

NOW this Sense of *Touching*, is common indeed to all *Animals*: However, 'tis certain that *Man*, in this, as well as in the Sense of *Tasting*, excels all others: whereas, in the other *three*, he is exceeded by some *Brutes*, as by a *Dog*, which *hears, sees, and smells* much more acutely than *MAN*. Besides, the *Lynx*, and *Eagle*, see more acutely than *Man*, or any other *Creature* in the *World*.

AS to the *interiour SENSES*, they are (according to *Averroes*) divided into *Four*; whereof the *first* is called the *Common Sense*, because it collects and perfects such *Representations* as are drawn-in by the *external SENSES*. The *second* is the *Imaginative Faculty*, which retains those receiv'd *Representations*, and presents them to the *third Faculty* of *internal SENSE*; which is call'd the *Cognitive Faculty*, *Phantasy*, or *Power of Judging*: Because it perceives and judges by the *Representations* received, what Nature or Kind of Thing that is, of which the *Representations* are made; and commits those *Things* thus discerned and adjudged, to the *fourth Faculty* of *Inward SENSE*,

SENSE, the *Memory*, to be kept there, and retain'd by it.

AND these *Four SENSES* have their respective *Organs* in the *Head*: *Common Sense* and *Imagination* possess the two former *Cells* of the *BRAIN*, as the *Cogitative Faculty* doth the highest, and middle Part of the *Head*; the *Memory* taking up the hindmost Part thereof.

THE *Organs* of *SPEECH* and *VOICE* are as many as the inward *Muscles* of the *THORAX*, betwixt the *Ribs*, *Breasts*, *Lungs*, *Arteries*, *Windpipe*, the *Bending* of the *Tongue*, and all Parts and *Muscles*, serving for *Respiration*, or *Breathing*: But the proper and immediate *Organ* of *SPEECH*, is the *Mouth*, in which are fram'd *Words* and *Sentences*, by the *Tongue*, *Teeth*, *Palate*, *Lips*, &c. above the *sensitive SOUL*, which expresseth its *Powers* by the *Organs* of the *Body*. The *incorporeal Mind* possesseth the highest Place, and hath a *double Nature*; the one called the *Contemplative*, the other the *Active Intellect*, because of their respective *Faculties*.

ACCORDING to the *threefold Order* of its *Faculties* there are *three APPETITES* in the *SOUL*. The *first* is *natural*, which is an *Inclination* of *Nature* unto its *End*. The *second* is *Animal*, which is divided into *irascible* and *concupiscible*, relating to *Anger* and *Desire*. The *third* is *intellective*, and is call'd the *WILL*; which (from its own deprav'd *Quality*) is affected with *four PASSIONS*, as the *Body* sometimes also is. The *first* is called *Oblettation*; the *second*, *Effusion*; the *third*, *Ostentation*; the *fourth*, and last, is what we commonly call *ENVY*. And

THESE *four PASSIONS* arising from a deprav'd *APPETITE* of *Pleasure*; its *Grief* or *Perplexity* doth occasion as many contrary *PASSIONS*: viz. *Horror*, *Sadness*, *Fear*, and *Sorrow* at another's *Good*, without its own *Hurt*; which is call'd *ENVY*, being a *Sadness* at another's *Prosperity*, as *Pity* is a certain kind of *Sadness* at another's *Misery* or *Adversity*.

BUT not to insist on these *Topicks*, I shall only add a few Words upon the *PASSIONS* of the *Mind*; which are nothing else than certain *Motions* or *Inclinations*,

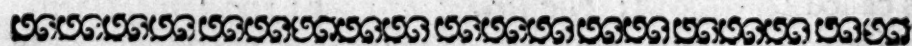
tions, proceeding from the *Apprehension* of any Thing, as of *Good* or *Evil*, &c.

THESE APPREHENSIONS are of three different Sorts, viz. *Sensual*, *Rational*, and *Intellectual*. And according to them, there are three Sorts of PASSIONS in the *Soul*; the first, following the *sensual* APPREHENSION, respects a temporal *Good* or *Evil*, under the Notion of *Profit* or *Loss*, *Defence* or *Offence*, &c: and they are called *Natural* or *Animal Passions*.

THE second following the *Rational* APPREHENSION, respects *Good* or *Bad*, under the Notion of *Virtue* or *Vice*, *Praise* or *Disgrace*, &c: and they are called *Rational* or *Voluntary Passions*.

THE third, following the *Intellectual* APPREHENSION, respects *Good* or *Evil*, under the Notion of *Truth* or *Falsehood*, *Justice* or *Injustice*, &c: and this Sort is call'd *Intellectual Passions*.

BUT these three different Sorts proceed all from the *Energy* of the *SOUL*; which is divided into *Concupiscible* and *Irascible*, both respecting *Good* and *Evil*, tho' under different Notions: which Division affords us eleven PASSIONS of the Mind, viz. *Love*, *Hatred*, *Desire*, *Horror*, *Joy*, *Grief*, *Hope*, *Despair*, *Boldness*, *Fear*, and *Anger*; all which might be particularly defin'd: But as that is more the *Philosopher's* than the *Physician's* Business, I shall proceed to that which is more strictly my Province.



CHAP. VI.

Of the HUMANE BODY.

BESIDES what has been said in the preceding Chapters, touching the *SOUL*, its *Powers* and *Faculties*; when we duly consider the beautiful *Form* and amiable *Figure* of the *BODY*, so nicely adapted to the sublime *Qualities* of the *SOUL*, with its curious

Struc-

Structure, and majestic *Stature*, erected to *Heaven*, whether its natural *Tendency* leads; besides the proportionable *Symmetry* and exact *Commensuration* of all its *Parts*: Surely we cannot, I hope, without the greatest *Amazement*, contemplate and admire the incomparable *Art*, and incomprehensible *Skill*, of the great ARTIFICER: And with magnificent *David* *, break out in *Eulogies* of *Praise*, and ardent *Exclamations* of *Love* and *Admiration*.

BUT more especially: *first*, when we distinctly view the slender *Filaments*, the minute *Vessels*, the elaborate *Contextures*, and various *Configurations* of the different ORGANS of this BODY. *Secondly*, When we duly consider the *Power* of its natural *Faculties*, the *Situation* of the *Entrails*, the *Rise* of the *Nerves* from the *Brain*, the *Ducts* or *Conduits* of the *Arteries* from the *Heart*, and the *Original* of the *Veins* from the *Liver*. *Thirdly*, When we call to remembrance, and ponder what I have been hinting upon, to wit, the *Power* of the natural *Faculties* of the *Soul*, by which they execute their relative *Functions*; besides, the *Ætherial Spirit* (the *Seat* and *Vehicle* of our natural *Heat*) dividing it self into a *threefold Diversity*, and appropriating to itself as many *Residences*, viz. the *Animal* in the *Brain*, the *Vital* in the *Heart*, and the *Natural Spirit* in the *Liver*: And then again, how these *three*, by a *Fomentation* of *native Heat*, and *nutritious Humours*, cherish and refresh the whole BODY supplying every *Part* with requisite *Strength* and *Vigour*. *Fourthly*, When at last we contemplate that *Piece* of incomprehensible *Artifice*, which gives a respective *Species* and *Form* to every particular *Part*, and implants a peculiar *Faculey* in every distinct *Member*, inducing such an *Excellency* into the whole BODY; that is, the *Formation* and *Delineation* of the FOETUS in the *Womb*.

THIS is such a great and curious *Master-piece*, that all *Others*, as well as the *Physician*, will find it not only their *Duty*, but also their great *Satisfaction* and *Pleasure*,

* Psalm 8. 24. 104, 139, &c.

to know and examine into this inimitable MACHINE of the divine *Architect*.

THE great *Galen* was converted at a *Dissection*, and durst not but acknowledge a *Supreme Being*, upon that Survey of his admirable *Handy-work*; saying, * “How much is it our special Duty therefore to admire the Wisdom and Providence of the Workman? Since, tho’ it is far more easy to set forth in Words the Beginning of Things, than to form the Work; yet our Expressions and Words fall so much short of the Wisdom of him that made us, that we are not able to explain, what gave him so little trouble to make.”

AND as this was a Man who had not been too devout, so if the most Profligate would seriously weigh and consider the elegant Constitution of such a vast Variety of different Textures, the Nicety of these Organical Works, the Curiosity of these Embroideries, and the Exactitude of these Figures, which appear and seem rather to be fitted for Admiration than Use; they would readily conclude with that great Naturalist, that these Things are the evident Characteristicks of some divine and omnipotent POWER, in that they are no ways to be accounted for by such natural Causes, as may be thought sufficient to explain the Phenomena of ignobler Beings.

THIS BODY, therefore, being the Vessel and Receptacle of the SOUL, the Engine and Instrument, in and through which it operates; I judge it to be our incumbent Duty, to take special Care, and nice Observation of both SOUL and BODY: Since (in this Life) the one cannot consist without the other, or discharge its respective Offices; the one always requiring the Ministry and Assistance of the other, which the omniscient ARTIFICER has so wisely ordered and ordained from all Eternity.

HOWEVER yet, I cannot agree with St. Cyprian, that the animated and sensible BODY is only used by the

* Lib. 15. de part. Us. Sect. 1.

SOUL, as mechanical *Instruments* are by the *Workman*; since I think a more proper *Simile* may be drawn from the *Sun* and *Moon*: For tho' the *Moon* borrows LIGHT of the *Sun*, she is not altogether devoid of such a *Power* or *Influence* as is proper to herself, being guided and sustained by a *peculiar Motion*, whilst she absolves her own *Circle*; taking LIGHT from the *Sun*, no other-ways than as a *Looking-Glass*, polish'd *Brass*, or *Copper*, takes *Splendor* or *Refulgency* from an opposite *Fire* or *Light*: For notwithstanding she exhibits no *Light*, unless illuminated by the *Sun*; however yet, she is not idle or desidious in accomplishing her *monthly Course*, and measuring her own *Space* of the *Heavens*, and that without any *Assistance* of the *Sun*. So the SOUL invigorates and affords *Strength* to the BODY, which however is not altogether without its own implanted *Faculties* and natural *Powers*; the four *Qualities* of *Humours*, with which ev'ry BODY abounds, capacitating and adapting it to all Things within its own *Sphere*.

FARTHER, as the *Sun* suffers ECLIPSES, and is obscured by the Intervention of the *Moon*; and the *Moon* again (in like manner) is eclipsed and obscured by the Objection or Interposition of the *Earth*, the *Sun* always running thro' the *Ecliptick Line* in the same Degree, and the *Moon* in opposite Degrees: So BODY and SOUL are subject to their own Impediments and *Eclipses*; sometimes defending, and sometimes offending one another; both sympathizing mutually, and participating equally of one another's *Portion*. As it is evident from the very Words of our dying SAVIOUR, who, by reason of his Human Weakness, broke out into these * Words, *My Soul is exceeding sorrowful, even unto Death*: Which *Death*, in the next Verse, he, in a manner, deprecates of the FATHER. For though he was not yet insulted, or laid hands upon, yet his whole *Mind* and *Thoughts* running upon his approaching *Danger*, he was seiz'd with such Horror and

* Matt. xxvj. 38.

Trepidity, as express'd a *bloody Sweat*, which stream'd from his *whole Body*: so that the *Acerbity* of his *Grief* must (of consequence) have been communicated to *both Parts*; and beginning in the *SOUL*, did thence redound into the *BODY*.

HENCE arises a rational and natural *Argument*, that as *SOUL* and *BODY* do not only *act* in and thro' one another, but also *suffer* mutually, always *sympathizing* with each other, and bearing equal *Share* in the *Troubles*, *Misfortunes*, and *Inquietudes* of this *Life*; and that as they *both* inseparably constitute the *MAN*: So, by reason of that natural *Sympathy*, and proximous *Affinity*, as the *SOUL* enjoys *Immortality*, the renew'd *BODY* (by the *Mystery* of the *RESURRECTION*) will be a future *Partaker* of the *same Reward*; and consequently the *whole Man* must enjoy *one* and the *same State* of *Beatitude*; or *otherways*, as he shall have promerited. Whence I proceed to

CH A P. VII.

Of the Formation of the EMBRYO.

THE *spirituous Substance* of both *SEEDS*, by its own generative and active *Qualities*, in a well disposed *WOMB*, produceth a small *Consistence* within the *Space* of *Seven Days*, call'd the *GENITURA*; which contains three * *Bullæ* (so term'd by *Physicians*) superlatively *MINUTE*, design'd for the *three Spermatick Members*: The *one* containing the purer *Part* of the *Seed*, full of *Vital Spirit*, for the *Heart*; the *other*, the more thick and pinguid *Part*, full of *Natural Spirit*, for the *Liver*; and the *third*, the more cold and crude *Part*, full of *Animal Spirit*, for the *Brain*.

* Bonacciol. Mercat.

ACCORDING to * *Hippocrates's* Definition of the GENITURA, it appears the *likest* of any Thing to a raw immature EGG, inclosing a certain red *Liquor*, with some pale-colour'd *Fibres*, of the finest *Texture*, not unlike the *Filaments* of a small *Spider's Web*, wrap'd up with the said red thick BLOOD in the *Pellicule*.

BUT in this place I must farther observe, that the abovesaid *spirituous Substance*, in which the effective Virtue of CONCEPTION resides, is endued with four distinct *Faculties*, which perfect as many different *Operations*, all subordinately effected in the *Constitution* of the CONCEPTION, viz.

I. THE *animative* or *vivifying* Faculty of the MENSTRUUM, called by some the first *Constitutive Faculty* of *Conception*, operating, as above, in *Seven Days*; which is otherwise term'd the Time of *Spumification*, *Lactation*, or *Coagulation*.

II. THE *separative* or *severing* Faculty of the Parts of the grosser *Materials* of the *Conception*, destined for the respective *Constitution* of the different *Organical Members*; which, being the Work of the next *Eight* or *Ten Days*, is perfected about the 15th or 17th Day from CONCEPTION; and this is called the Time of *Literation* or *Ramification*, when the GENITURA receives the Name of EMBRYO.

III. THE *collocative* or *ordinating* Faculty of all the severed material Parts of the different *Members*, disposing and placing them according to the *Law of Nature*, in due Order, Figure, and Situation; which, happening the following † *Twelve* or *Fifteen Days*, about the 27th or 32d Day from *Conception*, is called the Time of *Carnification*; when the Embryo receives the Name of FOETUS.

NOW according to the *Maxims* of *Astrology*, as all *inferiour Bodies* are govern'd and influenced by *Superiours*, so the *Seven Planets* have Dominion over the

* De Natur. Puer.

† Galen Ruf. Mercat.

22 *Of the FORMATION* Sect. I.

Man, not only from the *Day of Birth*, but also from the *Moment of Conception*; yet not *All* at one and the same *Time*, but every *one* in their *Order*, reigning each its *peculiar Month*. According to which *Principles*, SATURN reigns the *first Month*, suppeditating the humid and liquid *Substance* of the GENITURA and EMBRYO, through his frigid and siccid *Quality's* due *Coagulation* for generating the *Man*; by virtue of whose *Siccidity* the *uterine Retentions* also happen.

IV. THE *formative* and *figuring Faculty* of all the *Members* of the *Body*, imparting their respective *Shape*, *Figure*, and *natural Form*, to every particular *one*; which being the *Work* of the next *Eight to Eighteen Days*, is perfected about the 35th, to the 50th *Day* from CONCEPTION, and is called the *Time of coarticulate Formation*, when the FOETUS, or CYEMA, is stil'd *Infant*.

AND in this, the *second Month*, JUPITER is supposed to exert his *Power* in the *Seed*, by his calid and humid *Qualities*; and thereby to vivify the *Spirits*, strengthen the *Members*, and give *Augmentation* and *Growth* to the whole FOETUS: So that the *interior Members* are not * only conspicuous, but also *Legs* and *Arms* appear perfectly delineated, and are (at this time) distinctly *visible*; when also the *Head* takes its *Distance* from the *Shoulders*, the *Arms* from the *Sides*, and the *Legs* are plainly parted.

BUT, however, the above-mention'd *Four remarkable Times* may be also thus distinguished; viz. The *first* perfects the *Work of Spumification* and *Coagulation*; the *second* the *Vegetative*; the *third* the *Sensitive*; and the *fourth* begins the *Rational Operation*: Altho' this cannot yet be discern'd, because of the *Redundancy of HUMOURS*.

FROM the beginning of this *Chapter*, 'tis evident that the more *noble*, or *three chief Parts* take the

* Hippoc. de Natur. Puer. Fortun. Licet. de perfect. Constitut. Homin. in Uter. Rod. à Cast. de Nat. Mul.

first beginning to FORMATION, tho' perhaps last perfected, which forthwith distribute their respective Branches to the whole Body; as the HEART sends forth the Arteries, the LIVER the Veins, and the BRAIN the Spinal Marrow, with all their other Dependencies: And according to Aristotle, (who says, *there must be a different MATTER to every different FORM*); So indeed every distinct Part of the Body is form'd of a different Substance, according to the different Nature and singular Disposition of every particular Part.

HOWEVER, I shall not here pretend to go much farther in describing the FORMATION, it being more the Philosopher's than the Physician's Business: But whatever farther Progress others may attempt, I judge it a most difficult and ambiguous Matter; for who can be so well vers'd in those Indiscoverables? Or, who can pretend to know sufficiently what is done in those Obscurities? The Series of Nature being profounder than our Understandings, is consequently above our nicest and exactest Scrutinies: Which Consideration makes me astonished at the Logical Dissertations that some Men offer on these Principles, even on the most minute Particles, and smallest Proportions, rashly and inconsiderately assigning every respective one of these, a precise definite Time for their FORMATION.

I HAVE often been inclin'd to think, that such SCIOLOGISTS have not read, or at least not consider'd the Words of the * Preacher; *As thou knowest not what is the Way of the SPIRIT, nor how the Bones do grow in the Womb of her that is with Child; even so thou knowest not the Works of GOD that maketh all.* Neither do I find that the wise † Hebrean ever enter'd upon such Syllogisms, who (to the contrary) testifies that *the Counsel of GOD is not to be known; that our Thoughts are miserable, and our Devices uncertain.* Upon which Authority, I say, in this Case, as that Labour is commendable which

* Eccles. xi. 5.

† Book of Wisdom, ix. 13, 14.

can be compar'd to *Possibilities*, so to dive into those *Things*, which exceed our *Judgments*, and admit of no possible *Comparison*, is nothing better than *Folly*. Wherefore All that is further requisite, or possible for us, is to contemplate and admire the *Greatness* and *Elegancy*, the *Sublimity* and *Profundity* of this wonderful and amazing Work of FORMATION; which Subject (we find) hath been the frequent Contemplation of the *Royal Prophet* †, particularly expressing himself, in the most eloquent and sublime Terms, according to the *divine Light* of his illuminated Understanding: Saying, *Thou hast possessed my Reins: Thou hast ordered me in my Mother's Womb. I will praise thee, for I am fearfully and wonderfully made, marvellous are thy Works, and that my Soul knoweth right well. My Substance was not hid from thee, tho' I was made in secret, and curiously fashioned in the lowest Parts of the Earth. Thine Eyes did see my Bones, yet being imperfect; and in thy Book were all my Members written; which Day by Day were formed, when as yet there was none of them. Whence I proceed in order, to*

CH A P. VIII.

Of the Animation of the FOETUS.

THE *human Fœtus* being duly form'd and organiz'd about the 50th Day at the latest, as we observed in the preceeding Chapter, it remains to be *animated*, and that with a three-fold SOUL, viz. a *vegetative*, a *sensitive*, and a *rational Soul*.

THE *First* of which, according to the most learned *Fortunius* * *Licetus*, &c. may be ascribed to the MOTHER, as chiefly proceeding from the Power of her

† Psal. cxxxix. 13, 14, 15, & 16.

* De perfect. Constitut. Homin. in Utero.

Menstruum. The Second may (by the same Authority) be ascribed to the Power and Spirit of the Paternal Seed; but it is the more generally received Opinion, that the *vegetative Soul* is generated from the Commixture of both Seeds with the *Menstruum*, and therefore as much to be ascribed to the one, as to the other, PARENT: And that also the *sensitive SOUL* proceeds from the proper natural Faculty of the organiz'd Fetus, as the *rational SOUL* doth from the immediate Infusion of the great CREATOR. Touching which Infusion, I desire not to meddle with the Controversy that has so long subsisted betwixt Philosophers and Divines: Only as I have noted in Chap. iv. the Opinion of the greatest Masters of Nature; so if, in this, we could, from the Dictates of Faith and Religion, as well as from the Maxims of natural Philosophy, set the Matter in a clearer Light, I humbly presume it would not be disagreeable: Since the Principles of EITHER, taken separately, are in themselves mysterious, and can never be fully comprehended by some; whereas, both taken jointly, I mean, the Arguments of the one, to reinforce the Positions of the other, may be satisfactory to all.

IN order to which, I first observe; That the Influx of celestial Bodies exerts its Power very efficaciously in all Sublunaries and Inferiours. Hence, touching the four Humours of our Bodies, MARS is thought to excite the yellow Bile, as SATURN exasperates Melancholy; and LUNA to encrease Phlegm, as SOL and JUPITER govern the Blood.

SECONDLY, I observe, That the Power and Influence of the PLANETS lies effectually in Metals, Stones, Gems, Herbs, Roots, and all subterranean Bodies; as Gold, Silver, Copper, Iron, Tin, Lead, and whatever is contained in the Bowels of the Earth, whether it tend to Use or Necessity, Profit or Pleasure; the Virtues and Increase of them all proceeding from their peculiar STARS.

THIS we may easily conceive, by considering that GOD, who made all things for his singular, great, and good Ends, would never have exhibited to us such a fair

fair and spacious *Heaven*, such a *Course*, *Order*, *Continuation*, and *Series* of *STARS* to delight and feed our *Eyes*, like an empty *Shadow*, or an idle *Picture*: But, to the contrary, the *Trees*, the *Roots*, the *Branches*, the *Seas*, the *Rivers*, the *Streams*, and whatever runs thro' the *Veins* of the *Earth*, or graces the *Surface* of *Sea* or *Land*; yea, whatever is, or may be distinguished by the *Variety* of *Things* or *Names*, together with our *Bodies*, and their implanted *Humours*, *HE* subjected to the *Heavens*, that they might perceive some superiour *Impulse*, *Motion*, and *Agitation* from the *STARS*, and experience the *Utility* of their *Effects*.

HENCE the learned *Arabians* ascribed the *Bodies*, *Actions*, and *Dispositions* of *Men* to *STARS* and *SIGNS*: As *Proclus* teacheth, that *Superiours* and *Inferiours* are manifestly one in the other. But these *Inferiours* are defin'd, some to be *SOLAR*, others *LUNAR*; on which the *SUN* and *MOON* make strong *Impressions*, like those of the *STARS* and *SIGNS* they are under. In reference to which, they distribute the *human Body* among the *Planets* and *Signs* of the *ZODIACK*; and most ingeniously demonstrate, that as the *Triplicities* of those *Signs* answer one another, and agree in *Celestials*, so they also concur in the *Members* of the *BODY*; which *Observation*, daily *Experience* also confirms. As for example: By a *Coldness* of the *FEET*, the *Belly* and *Breast* are affected; and these *Members* answering to the same *Triplicity*, any proper *Medicine* apply'd to the one, helps the other; as by warming the *Feet*, the *Pain* of the *Belly* ceaseth.

WHEREFORE, if we consider the many *occult Qualities*, and *secret Influences* of celestial *Bodies*, besides these three which are manifest to us, namely, *Heat*, *Light*, and *Motion*, we shall readily and rationally agree with *Astrologers*, as well as *Philosophers*, in this Point; that the *celestial Bodies* concur with other *natural Causes*, in the regular *Procession* of all the different *Steps* of the *Conformation* and *Constitution* of human *CONCEPTION*.

MOREOVER, in the *Work* of *Animation*, they concur not only *physically*, but *efficiently*; not as *formal*,

mal, final, or material *Causes*, but meerly by *Action*; upon which Great *Efficient*, all other *Causes* depend. And yet they concur *efficiently*, not as the only particular, immediate, and proximus *Agents*, but as the common remote, physical *Agents*, moving *physically*. Now this *Aristotle* also plainly teacheth, saying; that, "As this *inferiour World* hath Existence from *superiour Beings*, so all worldly Existences must necessarily be ordered and directed by *those*, as the common *efficient Cause* of all *Sub-celestials*."

BUT I would farther observe, that the 'only ACTION of *those Bodies* in this Work, is to dispose and govern all proper, special, and singular *Causes* pertaining to *Nature*, preserving them *physically*; that is, by their *Motion, Light, and Heat*.

THE reason I call *those Bodies* the remote, not the proximus *Agents* in the Work, is, because they do not in *Substance, Motion, or Light*, immediately reach or touch the FŒTUS; but only, by their secret *Qualities and Influences*, extended to these *inferiour ORBS*, penetrate through, and affect the WOMB, tho' never so closely shut up: By which means, the *Spirit and Power* of the SEEDS, the *Faculties* of the Womb, and all concurring *Causes* are fomented, govern'd, promoted, preserv'd, and determin'd.

HOWEVER, in this *Constitution*, (whatever *natural Causes* may be advanc'd) the great GOD is indisputably and undeniably the prime and principal *Efficient*; for all other *Causes*, whether proximus or remote, without his *Concurrence*, would be but vain and insufficient, for the following Reasons.

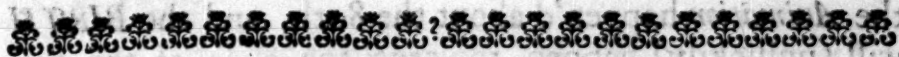
I. HE is the only primary AGENT, not *physical*, because not acting *physically*; not operating by *Motion*, because *immoveable*: but without *Motion*, and all other *physical Helps*, he powerfully and clearly displays HIMSELF, most eminently officiating by his own *All-sufficiency*, and Appointment of *Nature*.

II. H E likewise, as the prime, common, remote, and physical CAUSE, governs and directs all *other secondary Causes* supereminently, which are subjected to, and dependent upon HIMSELF; in constituting, organizing, and fomenting the CONCEPTION.

III. H E finally, as the proper, proximus, and immediate CAUSE, or AGENT, directing *none else*, nor using any *other Assistance* in the Work, neither being directed nor assisted by any other, gives to the organiz'd human FOETUS its greatest Completion; and the *ultimate finishing Stroke* of consummate Perfection, by infusing and communicating to it a Mind in a rational SOUL, by which the FOETUS becomes MAN.

AND this Infusion comes immediately from, and of HIMSELF, who is (in Aristotle's Words): "The Form" and Former of the UNIVERSE, the ultimate End, "the final and efficient Cause of all celestial Bodies, and "created Beings."

BUT now, as to the Time of this great Work of ANIMATION, Naturalists agree, that it requires double the Space that FORMATION had from Conception: which seems so far probable, because at that time, and no sooner, the Infant may be sensibly perceiv'd to move; and that by the Influence of calid and siccid MARS, who (according to Astrologers) now takes charge of it in the third Month. For by virtue of his hot Quality, he perfecteth the three principal Members, separating the Legs, Arms, and Head (in due proportion) from the rest: Wherefore this auspicious Planet is called the AUTHOR of the Infant's Motion. So that, in fine, conformable to what is laid down in the preceeding Chapter, the Work of ANIMATION is perfected, at soonest, about the 70th, and at latest, about the 100th Day from CONCEPTION. Which being done, I proceed to the next principal Work in constituting the MAN.



CHAP. IX

Of the MATURATION of the
INFANT.

NATURALISTS allow the *Infant*, for its ripening in the *Womb*, and to the legitimate *Time of Birth*, treble the *Space* that *ANIMATION* had; as *Physicians* agree in allowing *this* treble the *Time* that the *first Motion* had from *Conception*: and from hence the 4th, 5th, 6th, 7th, &c. are called *ripening Months*.

IN the *fourth Month*, *Astrologers* will have the *Planet SOL* to reign over the *INFANT*; whose *calid Quality* gives it entire *LIFE*, fully perfecting the *Members*, excavating the *Bones*, and amplifying the *Pores* and *Pas- sages* of the *Body*.

AS, in the *Fifth*, *VENUS* presides over the *INFANT*; who, by her *Frigidity* and *Humidity*, mitigates the *Heat* and *Siccity* impressed on it by the *superiour Planets*, absolutely perfecting the *Lineaments* of the *external Mem- bers*. According to which Principles, she, in a word, forms the *Privities* of both *Sexes*; and adds *Beauty* and *Ornament* to the *Nose*, *Mouth*, *Hands*, *Fingers*, and all the rest of the *visible Parts*.

AS also, in the *sixth Month*, *MERCURY* takes his *Turn* to assist the *INFANT*, which puts the last finishing *Hand* to the *Work*; perfecting the *Organs* of the *Voice*, enlarging the *Eyes*, *Eye-lids*, *Brows*, and *Nails*; pro- moting and confirming the *Instruments* of *Motion*; and at last, absolving and compleating whatever the *others* have commenced.

I shall only farther *hypothetically* observe, that, if the *INFANT* was perfectly form'd about the 35th *Day*, it was *animated* about the 70th, and consequently will be *born* about the 210th *Day*, the last of the 7th *Month*.

IF

IF the *Formation* was perfected about the 40th *Day*, the *Animation* happen'd about the 80th, and the *BIRTH* will (unluckily) happen towards the close of the 8th *Month*.

IF *Formation* happen'd the 45th, *Animation* follow'd the 90th *Day*, and the *BIRTH* will succeed about the close of 9 *Months*.

IF *Formation* was compleated the 50th, *Animation* follow'd the 100th *Day*, and consequently the *BIRTH** will appear about the last of 10 *Months*; and so of any other certain *Time*, definite *Day*, or stated *Hour*.

IT is, in all the above-mentioned *Cases*, to be farther animadverted, that the *MALE*, as he proceeds from the more *calid*, *siccid*, and *spirituous Seed*, arrives sooner to Perfection in *Formation* and *Animation*; and is consequently sooner born than the *FEMALE*, whose *Nature* is more *cold*, *flaccid*, and *weak*, even in the *WOMB*: Hence an Allowance of a few *Days* more or less †, may be justly made, according to the *SEX*.



CHAP. X.

Of the NUTRITION and POSTURE of the INFANT.

THIS is manifest, that the *FOETUS* is nourished in the *first Months*, by the *Umbilical Vessels* only: But the several following *Reasons* engage me to think; that, in the *latter Months*, it is alimented by the *Mouth* also, and That by a glutinous *limpid Liquor*: Which, being (probably) secreted from the *AMNION* for that Purpose, is found to surround it.

I. BECAUSE this *Liquor*, which seems very proper for that *Use*, is found not only in the *Mouth*,

* Hippoc. de Natur. Foetus.

† Aristot. 7. de Hist. Animal. 3.

Chap. 10. POSTURE of the INFANT. 31

but also in the OESOPHAGUS and Stomach of the INFANT.

II. IT is found *changed* in the smaller Intestines *; and being *chylify'd* in the Ventricle, it turns to Excrements, call'd MECONIUM, in the RECTUM, or strait Gut.

III. WE find a large Quantity of this Liquor, surrounding the FOETUS in the first Months, and but little in the last; which cannot probably be consum'd any other way, than by the INFANT.

IV. BECAUSE † that the Oesophagus, Intestines, lacteal Vessels, and thoracick Duct, may continue open, and be gradually accustomed to their respective Functions.

THE Infant's Situation, in the first and middle Months, is various; but, in the latter, it is commonly observ'd to be of an oval Figure: Sitting, with the Head hanging down, and the Chin upon the Breast; the Neck bending forwards, the Back is round; embracing the Knees, which are drawn up towards the Cheeks with its Arms; the Hands commonly hanging down, seem to embrace the Feet; the Heels cling close to the Buttocks; and while the Head is uppermost, the Face is towards the Mother's Belly.

BUT about the Time of Birth; the HEAD, which was always before *Lighter*, becomes considerably *Heavier* than any other Part. And its ponderous Bulk bearing much smaller Proportion to its Substance than it did before, must needs (consequently) tumble Heels over Head, in the Waters of the MEMBRANES; and the Head falling downwards, the Feet get uppermost, and the Face is turn'd towards the Mother's Back.

BUT because this is a painful and irksome Posture, however favourable for its EXIT; the Motions it makes for its Relief, occasion frequent Pains to the MOTHER,

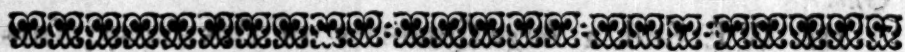
* Harv. in Exercit. Ettmul. Prax. cap. 25.

† Heister. in Compend. Anatom.

32 *Of the* MEMBRANES *Sect. I.*

which cause a Contraction of the *WOMB*, for the Expulsion of the *Infant*.

A N D, in short, this being the *natural Posture* of the *Infant* in the *WOMB*, its *preternatural Positions* may from thence be easily conceived.



C H A P. XI.

Of the MEMBRANES *and* WATERS.

THE MEMBRANES of the *Infant*, are *Two* in number, the one *exteriour*, call'd *CHORION*; the other *interiour*, *AMNION*: which are so contiguously joined one to the other, that they appear like one and the same MEMBRANE; and, because they are only separable by *Art*, as a *Silk-Lining* from a *Cloth*, are sometimes call'd the *double MEMBRANE*.

THE *Chorion* is rough and unequal on the *Outside*, but smoother *within*; where it closely unites itself to the thinner and transparent *Amnion*.

THIS *Amnion* covers the *Placenta*, and is fixed to the *Inside* of the *Womb*, by its *Circumference* on all Sides.

THESE MEMBRANES contain the WATERS, in which the *Infant* swims; which WATERS encrease along with the *Infant*, generating by degrees, and proceeding from the *moist Humours*, exhal'd (by way of *Transpiration*) from the tender *Infant's* porous Body.

THESE WATERS are of infinite Service to the *Infant*, during the time of *Maturation*: As they are to both *Mother* and *Child* in the time of *BIRTH*; which hereafter will more amply appear. And as in Conception, these MEMBRANES are form'd before the *EMBRYO*; being, as they are commonly call'd, the *Coats of the Egg*: So, in time of *Labour*, they always present themselves, with their peculiar WATERS, to the *ORIFICE*, before the *Infant* approaches.

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Chap. 12. Of the SECUNDINE. 33

IN Case of *TWINS* or more *Children*; each has its proper *MEMBRANES* and *WATERS* apart, in which they are separately wrap'd up.

CHAP. XII.

Of the SECUNDINE, or AFTER-BIRTH.

THE *SECUNDINE* is a thick carnosus *Mass*, of a soft *vasculous Substance*, compos'd of the *maternal Menstrua*; which waxes upon the outside of the *Chorion* in proportion with the *Growth* of the *Foetus*; encreasing (as the *Waters* do) together with the *Infant*. It is also called the *Womb-Cake*, or *Placenta Uterina*; but most commonly the *Woman's AFTER-BIRTH*.

IT is call'd *Placenta*, because of its flat circular *Figure*, resembling a pretty thick round *Cake*; being about eight *Inches Diameter*, and one *Thick*; a little thicker in the *Middle*, where the *Umbilical Vessels* are fixed, than at the *Edges*.

ITS *thickest spongy Part* (properly call'd the *Placenta*) adheres to the *Bottom* of the *Womb* by innumerable *Vessels*, and the *Interposition* of a very thin *Membrane*, which is a *Continuation* of the *Chorion*.

ITS *Concave Part* towards the *Infant*, is join'd to the *Navel-String*, and encompass'd with a smooth *Membrane*, which it derives from the *Chorion* and *Amnion*.

THE *Vessels* terminating in the *Navel-String*, are inserted at *one End*, almost in the *Center* of the *Placenta*; as the *other End* adheres to the *Navel* of the *INFANT*.

THE *SECUNDINE* is rough and unequal on the *Outside*, and smooth and soft on the *Inside*; and cannot be extracted, without breaking the mentioned *Vessels*: From hence an *Effusion* of *Humours* and *Fluxion* of *Blood* always follows it; which (according to the *Wo-*

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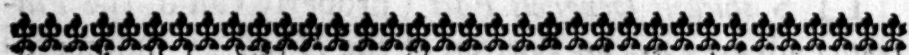
man's

34 *Of the UMBILICAL VESSELS, Sect. I.*
man's State of Health) is of a fairer, or darker, red Colour.

THE Use of the *SECUNDINE*, is to receive and absorb the *Nutritious Juice* from the *WOMB*; (as the *Intestines* imbibe the *Chyle*) which it afterwards transmits to the *Infant*, by the *Umbilical Vein*.

IN Case of *TWINS*, or more *Children*, if conceived at one Time, they have but one common *SECUNDINE*, (notwithstanding the contrary Opinion of others) which adheres to the *Fund* of the *WOMB*, by the *Placenta*, as above: Wherefore I must needs reject the *Testimony* of such *MIDWIVES*, who give out that they have found the *SECUNDINE*, fix'd to any other Part of the *WOMB*; tho' I experimentally know, that it is sometimes found in the *Hinder Part* near the *LOINS*, sometimes in the *Forepart*, sometimes near the *Diaphragma*, sometimes in the *Right*, and sometimes in the *Left Side*.

BUT however, we should be grossly mistaken, if from hence, we did conclude, that the *SECUNDINE* adher'd to any other Part, than the *Bottom* of the *WOMB*: Since such erroneous *Apprehensions* are merely occasion'd by the various *Motion*, or oblique *Position* of the *WOMB*; as hereafter will appear more at large.



C H A P. XIII.

Of the UMBILICAL VESSELS, or NAVEL-STRING.

THE three *Umbilical Vessels* consist of one *Vein* and Two *Arteries*; which compose the *NAVEL-STRING*, and are wrap'd up in one strong *Membrane*, proceeding from the *CHORION* and *AMNION*, between the *Navel* and *Placenta*.

THE *Vein* arises in the *Placenta*, from innumerable minute *Vessels*; proceeding thence with *Spiral Contorsions* between the *Arteries*, thro' the *NAVEL-STRING*,
and

Chap. 13. or, NAVEL-STRING. 35

and *Navel*, to the *Liver* of the *Infant*; terminating in the *Sinus* of the *Vena Porta*, into which it pours the *Blood* and *nutritious Juice* received in the *Placenta*; which immediately proceeds to the *Vena Cava*, and *Heart*, thro' a *Cylindrical Canal* (call'd *VENOSUS*) opposite to the *Umbilical Vein*.

THE *Arteries*, which are scarce half so large as the *Vein*, arise from the *ILIACS* of the *Infant*, or from the *AORTA*. They pass both Sides of the *Bladder* to the *Navel*, and thence through the *NAVEL-STRING*, by the like *Spiral Windings*, to the *Placenta*: where, after distributing some *Branches* to the *AMNION* and *CHORION*; they are divided into a very great Number of *Sprigs*, transferring the *Blood* from the *Fœtus* to the *SECUNDINE*.

THESE *Two Arteries*, with the above-mentioned *one Vein*, make up a certain *Part*, twisted like a *Rope*, about one Inch thick, and near a Yard long, call'd the *NAVEL-STRING*; which is so ordained of this *Length*, that the *Infant*, by its *Motion*, may not pull the *Placenta* from the *WOMB*; and that, by its *Means*, the *SECUNDINE* may be commodiously extracted after the *Birth*.

IN Case of *TWINS*, or more *Children*, every one has its proper *NAVEL-STRING*; the chief *Use* of which is, to convey the *Maternal Blood* and *nutritious Juices* by the *Veins* to the *FOETUS*, for its *Aliment*: The *Arteries* carrying back that which is unfit for this *Use*, to the *Placenta*; whilst the *Fœtus* is still supply'd with more by the *Vein*: So that there's a *continual Circulation*, or *Communication*, between the *MOTHER* and her *INFANT*.



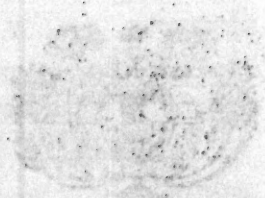
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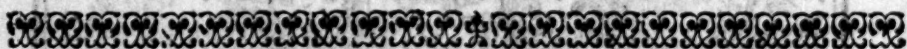
C H A P. I.

Of the SYMPTOMS peculiar to the State of MAIDENHOOD.

SUCH Distempers as are incident to this Sex in Childhood, are generally common to the Other; wherefore I shall take another Opportunity to treat of them more particularly, and conduct the Child, whether MALE or FEMALE, thro' all the *Indispositions*, to which its tender Age, or flexile Nature, may subject it, from the Moment of Birth, until the Time of Puberty: At which Age, the more delicate Constitution of FEMALES, takes a quite different Turn from That of the other Sex.

AT this Crisis, or Juncture of Time, the Imbecility of their natural Dispositions begins to display itself, by various and different SYMPTOMS; to which, some are more, and some less, expos'd from Henceforward; very few being altogether exempted from what is so peculiar to their State: Wherefore (in the first place)

I shall undertake to lay down the *Causes*, the *Symptoms*, the *Degrees* of Danger, and the respective *Methods* of *Curing* such *Diseases* as are incident to VIRGINS: Which leads me previously to define the VIRGIN-STATE, in



C H A P. II.

Of VIRGINITY.

VIRGINITY is an entire *State of Nature* in this Point; and nothing else, than the *Integrity* of the *Muliebrian Parts* from the *Violence* of *Virile Congress*.

TOUCHING the real *Signs* of VIRGINITY, many learned *Controversies* have risen; particularly as to the *Membrane*, call'd HYMEN: Some great *Anatomists* and *Physicians* * strenuously denying its *Existence*, and representing it as some *preternatural Production*; and Others † as vigorously maintaining the contrary *Opinion*. Upon which *Contention*, if I may humbly offer my *Sentiment*; the *later Authorities* are so commonly receiv'd, that (I think) this *Dispute* sufficiently decided.

WE find the *Reality* of it has been abundantly confirm'd by the *Greeks*, as it was discover'd by the *Arabians* of old: And the *Gentiles*, for that very Reason, call'd their *Nuptial God*, HYMENEUS. But, moreover, being since so positively asserted, by so many *famous* and *learned Men*, who openly vouch and aver that they have found and seen it; I do not see why

* Marc. Ant. Ulm. de Utero Mul. S. 1. c. 7. Amb. Paræus, L. 23. c. 42. Ranchin. de Morb. Virg. S. 1. c. 4. And. Laurent. Horat. Auger. &c.

† Avicen. Vesal. Fallop. Wier. Plater. Spigel. Heister. Morgagni. &c.

we should longer doubt of this *Membrane's* being to be found in *Most*, if not in *All*, *VIRGINS*, to distinguish them from the rest of their *Sex*: Especially since 'tis certain, that something extraordinary happens in the first COITION, which made *Terentius* call it, *Coitio Acerima*. Upon which Notion, *Catullus's* Verses are very elegant and à-propos: viz.

- " *Ut flos in Septis secretus nascitur hortis,*
- " *Ignotus pecori, nullo contusus Aratro;*
- " *Quem mulcent Auræ, firmat Sol, educat Imber,*
- " *Multi illum Pueri, multæ optavere Puella:*
- " *Idem cum tenui carptus defloruit ungui,*
- " *Nulli illum Pueri, nulla optavere Puella.*
- " *Sic Virgo dum intacta manet, tum chara suis; sed*
- " *Cum Castum amisit polluto Corpore florem,*
- " *Nec Pueris jucunda manet, nec grata Puellis.*

This I take to be a notable Emblem both of the *HIMEN* and of *VIRGINITY* itself.

OTHERS again affirm, that the Effusion of Blood, in the first Act, is common to all *VIRGINS*; founded upon the Authority of the 22d Chap. of *Deut.* &c: By which 'tis plain, that this Criterion or Mark, has been of the nicest Consequence among the Jews; as also in several other Nations: according to *Claudiamus* in the Epithalamium of *Honorius*, viz.—

" *Et vestes Tyrio Sanguine fulgidas*

" *Alter Virgineus nobilitet Cruor:*

" *Tum Victor madido profiliat Thoro,*

" *Nocturni referens vulnera prælii.*

In short, many Philosophers, as well as Poets, hold This for an infallible Symptom.

HOWEVER, tho' I must confess This to be a certain Sign of *VIRGINITY*, when it does appear; yet, if it don't, the *VIRGIN* is not therefore to be suspected: especially if she be more adult, in which

Case the *Parts* grow both larger and firmer, by the long *Flux* of the *Menstrua*; and consequently this *Effusion* cannot well be expected; neither can it be supposed in case of any violent *Procatartick* or *Primary Cause* (and from *That* she can be no more *secure*, than another Person) which may break the *HYMEN*, and dilate the *Parts* before *COITION*. But besides,

NEITHER can the *Mosaical Law*, nor the *Customs* of other Countries, imply any thing farther; than, that *This* is the indubitable *Mark* of *VIRGINITY* when it appears, without drawing any *suspicious Consequences* from its accidental *Non-appearance*: especially considering, that their *VIRGINS* married always very young, and commonly about the 12th or 13th Year of their Age; when they could scarce possibly be without some evident *Effusion*.

OTHERS will have the *Astriction* of the *VAGINA*, to be a certain *Sign* of *VIRGINITY*; which, (tho' I confess, is more strict in *VIRGINS*, than in such as have copulated) I deny, to be any certain *Sign*: Since all know, *That Part* to differ (in this Point) according to *Age*, *Habit*, and other *Circumstances* of *Body* and *Health*: But besides, some *astringent Medicines* would also easily answer this *End*.

OTHERS again have disputed the *Possibility* of a *VIRGIN's* generating *Milk*; affirming *Milk* in the *Breasts*, to be a certain *Sign* of lost *VIRGINITY*: And (I think) there is some Reason for this Opinion; for my part, I would inform myself better, before I should credit *Her*, who would give herself out for a *VIRGIN*, having this *Symptom*; notwithstanding the contrary Opinion of others, founded upon the Authority of *Hippocrates**: Since, according to the Judgment of the most learned *Mauritius Cordaust*†, it very seldom happens. But if after All, a *VIRGIN* chances to

* Sect. 5. Aph. 39.

† De Muliebris, lib. 1. Comm. 4 & 6.

Chap. 2. Of VIRGINITY. 41

have Milk in her Breasts, it differs in Quantity as well as Quality, from That of a Woman who has conceiv'd; For which Reason, he distinguishes and describes Two Sorts of MILK: viz.

THE One, which belongs to this Case, he says, is generated of Blood flowing to the Breasts, when deny'd an Exit by the Womb; and is nothing but the *superfluous Aliment* of the Breasts, by their peculiar Faculty, turn'd into MILK: Which may happen to VIRGINS irregular in their Menstrua; and according to this Interpretation, Hippocrates is to be rightly understood. The other MILK, he calls *Puerperial*; which does not generate without a Big-Belly, and That pretty far Gone: Which MILK is communicated from the WOMB directly to the Breasts.

HE teaches us also, that this Difference of MILK, proceeds from the Diversity of Blood, of which both Sorts are generated; and likewise from the Variety of the Veins and Passages, by which they are convey'd and carry'd to the Breasts.

WHICH Veins are Two-fold; namely, Common and Proper. The Common are called *External*, and these are such as only carry the Blood from the *Vena Cava*, for the Nutrition of the BREASTS; which, if *superfluous*, or more than is sufficient for that Use, is converted (by the Glands of the BREASTS) into a kind of MILK: Which, altho' white, is of a thinner Substance, not so sweet, nor so plentiful, as true MILK. Whereas the proper *Mammary Veins* carry that very Blood, of which MILK is generated for the Nourishment of the Infant, from the Womb directly; which happens, by what the Greeks call an *Anastomosis*, or Conjunction of the *Mammary and Epigastrick Veins*.

FROM hence we have the Difference of these two sorts of BLOOD and MILK: Wherefore it is to be concluded, that altho' the One be found in the Breasts

† Hippoc. Lib. de Glandulis.

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of *VIRGINS*, they are not therefore to be rashly suspected of *Pollution*; since, according to *Aristotle* ||, the same may happen sometimes also to *MEN*.

BUT, besides what is mention'd, there are many different external *Methods* propos'd by *Authors**, to distinguish a *Real*, from a *Supposititious VIRGIN*: Which however I shall not enter upon, lest what I have intended for the *Benefit* of All in general, might tend to the *Detriment* of some in particular. And thus having briefly described the *MAIDEN* and *MAIDEN-HEAD*, I come now to treat of such *Indispositions*, as are either *Peculiar*, or more *Familiar* to her *STATE*. And, First, in order



CHAP. III.

Of the Virgin-Disease, commonly called the GREEN-SICKNESS.

THIS Malady is an *Indisposition* visibly discolouring the Complexion, and nothing else, but a *Complication* of divers *Diseases* and *Symptoms*: Wherefore it is variously represented and taken, sometimes for a *Disease*, and sometimes for a *Symptom*.

BUT that as it will; it is so *Familiar*, or rather *Peculiar* to *Mature VIRGINS*, that most *Physicians* call it the *Virgin-Disease*, or *Virgin-Fever*; as others call it *Febris Alba*, or pale Fever: Not that it is always join'd with a *Fever*; but because the affected

|| De Hist. Animal. Cap. 12 & 3.

* Sever. Pin. in Opusc. Physiol. & Anat. cap. 5. Pet. Forest. Schol. 28. Observat. 55. Plin. lib. 36. cap. 19. Anselm. Boet. lib. 2. de Lapid. & Gemm. cap. 165. Melch. Sebiz. de Not. Virg. Thuring. &c.

Chap. 3. Of the GREEN-SICKNESS. 43

Party represents (in most Respects) a *Feverish Person*, by the Celerity and Frequency of Her PULSE, &c.

IT is also call'd *Febris Amatoria*; I suppose, (partly) because of the Colour, according to the POET; *Palleat omnis Amans, Color hic est aptus Amanti*: And (partly) because of the Age, which may be the fittest Time for LOVE; which made *Diogenes* say, at sight of a certain Patient, That she was dead in her OWN, but alive in ANOTHER Body: As it is otherwise denominated *Icterus Albus*; because, as in an *Icterus* or JAUNDICE, the whole Body is tinctur'd yellow: So in this Disorder, it is changed Pale and Wan; and from hence it is commonly call'd the GREEN-SICKNESS, because of the Colour and Aspect inclining a little that way. As it is likewise also term'd, *Fædus seu pallidus Virginum Color*, or the ugly pale Colour of languishing VIRGINS.

HOWEVER yet I have known many Women, in France, and Germany, who have been so far from thinking it an ugly Colour, that they have esteem'd it most Beautiful; and have used very pernicious Things to gain and appropriate this Colour to Themselves: Esteeming Fresh-locking-Women, of a fine sanguine Complexion, mere RUSTICKS.

THIS disagreeable Affection of the Body, however it is titled, most certainly implies a Complication of several different Maladies; annoying all the Actions of the Natural, and Motions of the Animal Faculty: Or, in short, perverting the whole OECONOMY of the Body. And because it is always join'd with Most, if not with All the following SYMPTOMS, I think it may be regularly thus defin'd.

THE VIRGIN-DISEASE, is a Change of the natural Colour of the Face into a pallid greenish Tincture; with a Dejection of Strength, Gravity of all the Members and Parts of the Body, Fastidy of Victuals, Malacia or Pica, Heaviness and Palpitation of Heart, Difficulty of Breathing, a slow Fever, Pains of the Head, Melancholy, Inflations, and Oedematous Tumours of the Feet, Legs, Eyelids, and the whole Face; with a frigid Intemperature, and Cachexy of the whole Body;

44 Of the GREEN-SICKNESS. Sect. II.

Body; proceeding from a deprav'd Nutrition, and the abundance of crude Humours, ingender'd from a perverse Disposition of the LIVER, SPLEEN, or VENTRICLE.

HENCE proceed the OBSTRUCTIONS of the Uterine Vessels, and neighbouring Parts, of the Veins of the LIVER, and SPLEEN; but especially, of the MESENTERY: So that the natural Calidity of the whole Body being thus suffocated, and oppressed, by those crude Humours, an Irregularity, or Suppression of the MENSTRUUA, must needs ensue.

BY this Definition, the DISEASE may easily be known; tho' in some Circumstances, it may differ, according to the different Quality of the predominant Humour: Especially considering, that if all the foremention'd Signs, or Symptoms, do not concur in all PATIENTS; yet Most of them commonly do happen in most Persons, and All in Some. Whence I come methodically to denote more particularly its CAUSES.

IN order to which, I may justly premise, that the Proximate Cause is a Collection of deprav'd crude Humours in the Body: As the Remote Cause, is a Suppression, or Irregularity in the Course of the Menstruous Blood.

NOW this Blood flowing to the WOMB, as soon as the VIRGIN is Mature; if the Passages are not capacious or patent enough, it regorges to the Major Veins, and thence to the very BOWELS; extinguishing the Heat, and obstructing the Vessels of the LIVER, SPLEEN, and MESENTERY: From whence proceeds a vicious Concoction and Sanguification; and consequently a Collection of crude Humours, which excite various Symptoms thro' all Parts of the Body. And it commonly happens, that an irregular or improper Way of Living, especially about the Time of Puberty, or in the Time of the natural Course, engenders a pituitous and viscid Blood; which, together with the aforesaid Humours, totally obstructs the Uterine Vessels.

THIS Distemper is very dangerous, if not timely cur'd; because if the Heart be very much affected, and the Vital Faculty quite oppressed with it, the Patient often

Chap. 3. Of the GREEN-SICKNESS. 45

often dies suddenly: Or, otherways, it commonly turns to a *Dropsy*; and, when the *Humours* fly into the *HEAD*, it causes a *Frenzy*.

NOW as I come gradually to set forth the *CURE* of this *Distemper*, I shall *First* observe; that, as various *Diseases* and *Symptoms* do concur towards its *Complication*, all *These* are to be discretely remov'd by proper *Means* and *Methods*. But that I may be better understood, *SOME* are more prudently (perhaps) to be remov'd singly; and *OTHERS*, jointly: As for Instance, if any one *Symptom* be more troublesome and dangerous than the *Rest*, it ought to be chiefly regarded above All others; and, if not remov'd, at least mitigated in the First Place.

SECONDLY, That a proper *Regulation* of *Diet* and *Regimen* of *Body*, is to be judiciously directed, as another initial necessary *Step* towards the *CURE*; which we have hereafter more fully treated of.

THIRDLY, That this *Distemper* is more easily and sooner cur'd, in *Spring* or *Summer-Time*, than in *Autumn* or *Winter*; because when the proper *Constitution* of *WEATHER* and *AIR* concurs with the medicinal *Means*, more may be done towards effecting its *CURE* in a *Week*, than otherways can be expected in a *Month*. Wherefore *These* being premised, the *CURE* will most rationally depend upon the four following methodical *STEPS*; viz.

I. THAT the vitious *Humours* lodged in the *Body*, especially in the *Bowels*, be duly prepar'd for Expurgation, and then effectually evacuated.

II. THAT the *Intemperature* and *Obstructions* of the *VENTRICLE*, *LIVER*, *SPLEEN*, and *WOMB*, be All carefully and regularly removed.

III. THAT the *Menstrua* be duly rectify'd, and physically reduc'd to a *Natural Course*, by the best *Conduct* of Art and Judgment.

IV. THAT the *Rest* of the morbidick *Humours*, whether *Crude*, *Aqueous*, or *Serous*, lurking behind in the *Body*, be in due manner discharg'd.

BUT

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BUT more particularly ; The CURE may be begun with a gentle *Evacuation of the Belly*, and, if Strength and other Circumstances shall permit, with repeated *VENÆ-SECTIONS**, or *Blood-letting in the Foot*, not only for removing the *Plenitude*, but also for resolving the *Obstructions* of the *MENSTRUUA*.

AND because the HUMOURS are *Thick and Frigid*, proper *warming and attenuating*, or *preparing and purging Medicines* are to be used in their Turns ; or *rarefying and inciding Matters* may be mixed with the *Purgatives*. As also in Case the HUMOURS lodge about the *Ventricle and Mesentery*, a gentle *VOMIT* may be convenient.

BUT because divers *Parts* suffer *OBSTRUCTIONS* in this sickly *Affection*, proper *Aperitives* are to be made use of ; and *Those* chiefly, which have a *natural Affinity* with every respective *affected Part* : As for Example ; *Hepaticks*, for the *LIVER* ; *Spleneticks*, for the *SPLEEN* ; *Uterines*, for the *WOMB*, &c. Wherefore the *Physician* ought to weigh and consider well, whether the *Veins* about the *VENTRICLE* and *MESENTERY*, or *LIVER* and *SPLEEN*, be most *obstructed* ; since the most special *Regard* must be had to the *Part most affected*.

IN the *Beginning*, such *Medicines* as serve best to open the *Obstructions* of the *MESENTERY*, *SPLEEN*, and *LIVER*, sparingly mix'd with such as provoke the *MENSTRUUA* or *MONTHS*, are to be discreetly used : But afterwards, in *Progress* of the CURE, the *Uterines* may (by *Degrees*) be prudentially *augmented*.

HOWEVER, at last it often happens, that tho' the grosser HUMOURS are evacuated : yet some watry, serous Humours remain in the *Circuit* of the *Body*, too much refrigerating and infesting it still ; which are most conveniently remov'd by *Sudorificks*.

BUT because the compleat CURE of this *Disease* requires some *Length of Time*, I would advise proper *Preparatives*, *Purgatives*, and *Corroboratives*, to be exhibited by Turns ; as also the very *Form* and *Composition*

* Hipp. Lib. de Morb. Virgin.

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of the *MEDICINES* to be varied in their Courses, for the preventing of *Nauseousness*.

THE Patient's REGIMEN, must likewise be well prescrib'd, and curiously regulated; especially her *DIET*. She ought to live upon *Victuals* of the best *Nutrition*, and easiest *Concoction*, carefully avoiding all others that are not so agreeable: Especially such as are of a *frigid* or *humid Quality*; such as *Pot-herbs*, *Garden-Fruits*, *Milk*, *Fish*, &c. She may drink generous *Wine*, or good *Ale*, cautiously abstaining from all *small Drinks*, and other such like noxious *Liquids*, as much as possible.

MOREOVER, *Motion* and *Exercise* are very convenient, not only in the *Beginning*, but also in the *Declension* of this *DISEASE*; especially by strongly *Chafing* and *Rubbing*, with warm *Flannels*, every Morning in *Bed*.

BUT *Sleep* is not to be too much indulged, especially not in the *Mornings*; altho' she be *Then* more propense to it, by reason of the abundance of *VAPOURS* ascending to the *Brain*.

LASTLY, to perfect and confirm this *CURE*, I would recommend * *Hippocrates's* sound Advice to the *Patient*; which is to the following *Purpose*, of marrying betimes for the sake of *Health*, and to prevent all the future ill *Consequences* of this growing *Malady*.

“ *EGO*, inquit, *Autor sum, ut Virgines hoc malo*
“ *affectæ quàm celerrimè viris jungantur; iisq; cohabi-*
“ *tent: Si enim conceperint, convalescent. Si verò in pu-*
“ *bertate hoc malo non corripiantur, tum paulo post eas*
“ *invadit.*”

UPON which excellent *Sentence*, the two following *Observations* may, (I hope) appositely here follow and take place, viz.

* *Lib. de Morb. Virgin.*

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I. Quod etiam Ratione & *Experientiâ* confirmatur * :
Venere etenim *Uterus* & partes circa *Uterum* incalescunt, vi-
 aq; *aperiuntur* & *laxantur*, ut *sanguis Menstruus* postea fa-
 cilius ad *Uterum* confluere & per eundem effluere possit.

II. Rectissime etiam dictum, convalescent, si concipiant ;
 quia *Sanguis*, qui præter *Naturam* antea retinebatur, jam in
Fætus Formationem absuntitur ; & si quid vitiosorum humo-
 rum in *Utero* cumulatam sit, id post partum evacuatur.

I have thought it proper to insist the more upon this
 HEAD ; because I know none else among all the *Indispo-*
sitions of Life, which can properly be accounted pecu-
 liar to *VIRGINS*.

SOME however may think perhaps, that I had a
 fair Opportunity in this Place, to introduce the various
Diseases and *Symptoms* of the *WOMB*, *VAGINA*, and
PUDENDUM ; the divers *Symptoms* of the *MENSTRUOUS*
FLUX, together with *Those* which are incident to all
Women after *PUBERTY*.

WHICH *Objection* I humbly beg leave briefly to
 answer, that a twofold Reason dissuaded me from under-
 taking to treat of *Those* Heads in this Place.

I. BECAUSE They are common to all *WOMEN* in
 general, and incident to the *Wife*, or *Widow*, as well
 as to the *Virgin* ; wherefore, I hope, another Place in
 this *BOOK* may be assigned to Them, more proper and
 convenient than This, without any *Digression*.

II. BY reason the several *Branches* of these HEADS
 are so very many and different, that to discuss 'em all
 Here, as I ought to do, would too much swell the *Bulk*
 of the *Volume*, and enhance the *Price* of this *BOOK* ;
 which I design for the Good of the poorer Sort of *Wo-*
men, as well as the Benefit of the Rich. However,
 what is most *Essential* and necessarily *Requisite*, shall not
 be omitted (at least co-incidentally) in its proper Place.
 Wherefore I shall leave the *VIRGIN*, after a digressive

* Joh. Lang. Lib. 1. Epist. 2.

Hint in the following Section, upon her darling Passion, [LOVE]: and supposing her to have alter'd her Condition, I shall thenceforward treat her as a WIFE.



CHAP. IV.

Of LOVE.

LOVE is the first Impression that affects the APPETITE; proceeding from the Pleasure conceiv'd in a Real or Imaginary GOOD.

IT is the CEMENT of Affections, and the Effect of a certain Congruity of Minds; sympathetically arising from the DIASTOLE and SYSTOLE of affected Hearts.

IT is (as a certain Author defines it) a sacred Frenzy of the Soul, and a Divine Madness, elevating Men to the Pitch of Saints, and rendring them the Care of Benign DÆMONS: so far that they are every where safe, being under the Protection of GODS and Men; as the Poet familiarly expresses it, *Quisquis Amore tenetur, eat intusq; sacérq;*—

IT is a kind of a wonderful satisfactory Death, and a voluntary Separation of SOUL and BODY. The LOVER's Mind is in one Place; his Body, in Another; and He himself is No Where, if he be not with the Object of his LOVE: So that (in a manner) it transforms the LOVER into the Object beloved; and all this without any evident Trouble, or if there be any Trouble, still the Trouble is lov'd, with apparent Satisfaction and Delight. As it is ingeniously said, *Ubi Amatur, non laboratur; & si laboratur, labor Amatur.*

LOVE always springs and blooms with fresh Desires, with young and vigorous Inclinations. It is so riveted in our Natures, that our Blood must first grow cold and be congeal'd by Death, before this FLAME can be extinguish'd: Nay, sometimes it is more fer-

vent, tho' of shorter Duration, in our *latest Hours*, than in our *Prime*. For like as the *OIL* which feeds a *Lamp*, when almost spent, the *startled Flame* begins to rouse it self, and *burn afresh*, as if it would fain subsist a *little longer*; tho' on the very *DREGS* of its accustomed Fuel, it crackles and flashes with greater *Noise* and *Lustre* than before, but presently *expires*: So does the *Amorous Fire*, when we are nearest our *Dissolution*, begin to trouble us most, and makes our *SOUL* to blaze with greater *FEVERS* of *Desire* and *Grief*, knowing its *Period* to be near at hand.

LOVE is like the *Palm-Tree*, the more oppressed with *Weights*, the *Higher* it grows. It always desires to encrease, dilate, and stretch itself farther still, leading to an *Harmonious Union* of *HEARTS*. *Riches* cannot purchase *Love*. Neither *Threats* nor *Violence* can either force or restrain it; which being free by *Nature*, as proceeding from the *Freedom of the Will*, disdains all *COMPULSION*; *subduing* all, and *unsubdued* by any *Opposition*. In short, it is so generous, that whereas all other *Affections* and *Actions* aim at different *Rewards*; *LOVE* only is contented with *Love*, holding nothing else as a *sufficient Recompence*.

LOVE made *Ulysses*, rather than forsake his dear *Penelope*, refuse *IMMORTALITY* itself at *Calipso's* hands.

LOVE is the oldest of our *Passions*, in that it came into the *World* with us; and from thence it becomes *habitual* to a good *NATURE*, and a *brave SOUL*.

LOVE is the most noble and generous of our *Passions*, it soon removes all puny *Obstacles* in its way. It is ready, prompt, and dexterous to find *Excuses* or *Forgiveness* for the greatest *FAULTS*, and much more to palliate the *Peccadillo's* of the *BELOVED*. It does by a peculiar *Force* and *Virtue* extirpate all *Revenge*, and blot out the *MEMOIRS* of *past Unkindnesses*.

LOVE triumphantly *overcomes all Things*. All things yield to its *Power*; and the more we oppose it, the stronger *Resistance* it makes. It conquers the greatest *Hearts*, and victoriously subdues the most
mag-

magnanimous Souls. Alexander the Great, was not exempted from this insuperable Passion, at the sight of Darius's fair Daughters. No, LOVE made Hercules, the Son of JUPITER himself, stoop and truckle to the Female Conqueror; according to the following known Distich,

“ *Lenam non potuit, potuit superare Lenam,*
 “ *Quem Fera non potuit vincere, vicit Hera.*

IN fine, I think it is also ingeniously well defin'd in this ensuing Hexastick, by Mr. Howel*,

“ *Fax grata est, gratum est vulnus, mihi grata Catena est,*
 “ *Me quibus astringit, lacerat & urit Amor;*
 “ *Sed Flammam extinguere, sanari Vulnere, solvi*
 “ *Vincula, etiam ut possem non ego posse velim:*
 “ *Mirum equidem Genus hoc Morbi est, Incendia & Ictus*
 “ *Vinculaque; vinctus adhuc, laceratus & ustus Amo.*

Grateful's to me the Fire, the Wound, the Chain,
 By which LOVE burns, LOVE binds, and giveth Pain:
 But for to quench this Fire, these Bonds to loose,
 These Wounds to heal, I would not, could I, choose:
 Strange Sickness, where the Wounds, the Bonds, the Fire
 That burns, that bind, that hurt, I must desire.

THE Omniscient CREATOR, at the Beginning, implanted in the Nature of Both Sexes this Faculty of LOVE, accompanied with a fervent Desire of Procreation; furnishing them (for this Purpose) with proper adapted ORGANS, and other suitable MEANS of Generation: which, in themselves, are no less wise and wonderful, than the great DESIGN of propagating the World by successive Generations, is profound and miraculous; as will

* Sect. 3. Epist. 19.

more manifestly appear, by explaining their *Order, Propriety, and Disposition*, in *Sect. 4. Chap. 5, 6, &c.*

AND to compensate many subsequent *Griefs* thereupon, *NATURE* added to *Man* and *Woman* an ardent *Desire* of mutual *Embraces*, concomitated with certain alluring *Enticements* to *Multiplication*; to the end that in *Congression* they might be so delightfully charm'd, as to forget, or at least vilipend and slight all other trifling *Annoyances*.

THUS, in short, *Nature* hath cared and provided for *Propagation* and *Posterity*; not only in the *Human Race*, but also in all other *Species* of *Creatures*, according to the excellent *Poet* *;

“ Omne adeo genus in terris hominumq; Ferarumq;

“ Et genus *Aquorum*, pecudes, pecteq; Volucres,

“ In furis ignemq; ruunt: AMOR omnibus idem.—

“ Quid Juvens, &c.—

Thus ev'ry *Creature*, and of ev'ry *Kind*,
The secret Joys of sweet *COITION* find:
Not only *Man's* imperial *Race*; but they
That wing the liquid *Air*, or swim the *Sea*,
Or haunt the *Desart*, rush into the *Flame*:
For *LOVE* is Lord of all; and is in all the same.

'Tis with this *Rage*, the *Mother-Lion* stung,
Scours o'er the *Plain*; regardless of her *Young*:
Demanding *Rites of Love*, she sternly stalks;
And hunts her *LOVER*, in his lonely *Walks*.

'Tis then the shapeless *Bear* his *Den* forsakes;
In *Woods* and *Fields* a vast *Destruction* makes.
Boars whet their *Tusks*, to battle *Tygers* move,
Enrag'd with *Hunger*, more enrag'd with *LOVE*.

BUT all ludicrous *Diversions* apart! I proceed
hence to a necessary *Consequence* of this Noble Natural
PASSION; viz.

* *Georg. 3.*

C H A P. V.

Of COPULATION.

THIS Conjunction of both SEXES, is the Consummation of LOVE, and the Pinnacle of the Lover's natural Felicity. It is the Sum and superlative Degree of their *terrene Happiness*; above which the Lovers cannot aspire, naturally speaking, in *Human Society*.

THIS is also the utmost Height of their eager Desires, and the greatest Extent of their languishing Wishes. It is the Abatement, as well as the Completion of their unbounded Passions, and the Tranquillity of their restless Minds. However yet—

THIS Act is Two-fold; *Fecund* and successful, or *Sterile* and unsuccessful in the Event.

I. AS to the First, some most famous AUTHORS have written their Minds freely and copiously upon it, and have given certain pertinent Instructions, touching the Time, and Manner, as well as Conduct of the Parties concern'd, both before and after the Act: Particularly *Avicenna** (no *Proletarian Writer*, but a most Illustrious and most Learned Prince) has insisted at large upon every Case belonging to this Head, together with the Way and Manner, as well as the proper Time of begetting either SEX; "*Ubi, inquit, menses defluerint, sitq; abstersus Uterus, quod quinto ferè die usu venit, aut septimo; Si Vir Mulier congregiatur, à primo quàm est purgata die ad quintum, MAREM produci: à quinto verò ad octavum, FÆMELLAM: rursus ab octavo ad duodecimum denuo, MASCULUM, &c.*"

WHICH excellent Opinion is fully proved by *Levinus Lemnius* (another great Master of NATURE): According to whose authentick Judgment also, there are likewise many things† of an occult Specifick Quality, and secret Effect,

* Lib. 3. Feo 21. Tract. 1. cap. 12.

† De occult. Nat. Mir. lib. 1. cap. 9.

for answering the same ENDS, as well as *Fecundity* itself: which both common *Reason* and daily *Experience* confirm for TRUTH.

BUT because I lie under the Disadvantage (at present) of writing in our *vernacular Tongue*, it may be proper to pass by, what (otherways) might be plentifully said on this *Head*: However I shall observe, that the *Generality* of RULES are most commonly calculated for *Persons* of a discording Constitution of natural *Temperaments* and *Faculties*; which *Difference of Constitution* brings often false and ungrounded *Reproaches* upon the Reputation of fruitful WOMEN. From whence it is justly to be remarked, that, tho' few or no *Children* are got meerly by ART; yet if a little *Dexterity* or ingenious *Subtilty* was used with some WOMEN, there would not (perhaps) *One* in *Three* of those, who are rashly accounted so, be found BARREN.

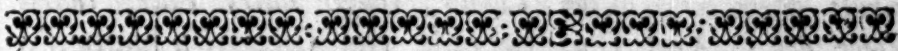
II. AS to the *unsuccessful* ACT of Coition, I shall refer what may be offer'd on *that Point*, until I come to treat of *Sterility*, in SECTION viii: And therefore I shall only farther observe *Here*, that the *Parties* ought not to encounter with full *Stomachs*, *Bellies*, or *Bladders*; much less when BOTH, or EITHER, are weary, *fatigu'd*, *depriv'd* of *Sleep*, angry, troubled in *Mind*, or in any other real respect *out of Order*. For in these *Cases*, it is very detrimental to the *Health* * of such imprudent *Parents*; and (if *Conception* follows) it infallibly intails some respective EVIL upon the *Innocent Production*: Because all the *Affections* or *Disturbances* of their MINDS, virtually devolve upon the EMBRYO. And besides, as (by such perverse Means) the *Conception* becomes *irregular*; so also does the *Maturation*, *Nutrition*, and *Birth* carry the same *Impression*: For from the least *Perturbation* of SP I-RIT, the *Infant* may contract various *Blemishes* of BODY, as well as *Errors* of MIND.

WHEREFORE, in fine, as this *Affair* is to be undertaken with a serene and contented *Mind*, a cheerful and undisturbed *Heart*, so it ought to be perform'd

* Gal. lib. Art. Med. Hipp. ac Gal. 5. in Sextum vulg. Morb. Hipp. lib. de Sterilib.

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with *Moderation* and *Decency* : Not in any *brutal Manner* or *Posture* ; but according to the rational *Law* and proper *Instinct* of *Nature*.



C H A P. VI.

Remarks upon COPULATION.

SUPPOSING now this amicable *Engagement* of *NATURE* to be over, I may be modestly allow'd (I hope) to add a few Words upon its necessary *Consequences* ; and *First*, of what has happen'd in the *Act*, *Retention*, and *Conception* following.

FIRST then, If the *WOMAN* has contributed most *Seminal Matter*, it may reasonably be concluded, that the *CHILD* will favour the *MOTHER* most : If the *MAN* predominantly, the *FATHER* : If *Both* equally, it will resemble *Both*, or in part the *FATHER*, and partly the *MOTHER*.

AND according to *Anaxagoras*, if the *SEED* has flown into the *Right Side* of the *WOMB*, from the *Right Rein* of the *Man*, a *Male* will be conceiv'd ; if into the *Left*, from the *Left Rein*, a *Female* ; by reason of the *Frigidity* and *Humidity* of that Place. Which *Notion* may seem *probable* ; considering, that tho' the *WOMB* has but one *Cavity*, yet it has two *Sinuses* * for conceiving the *Two different Sexes* : As *Nature* has in other *Respects* accordingly given the *WOMAN* two *Breasts*.

LACTANTIUS also observes †, That, if peradventure a *Male* should be conceiv'd of the *SEED* fallen to the *left Side*, the Place destined for the *Female*, he will make but a *SEMIVIRILE MAN* ; distinguishable by some *Womanish Qualities*, such as a *weak* or *tender Heart*, *small*

* *Hercul. Saxon. Oper. pract. p. 3. c. 28. Rod. à Cast. de Nat. Mul. lib. 3. c. 13.*

† *Lib. de Opific. Dei, pag. 823.*

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Voice, a *smooth*, or *unbearded Face*, &c: And so, on the contrary, if a *Female* should be conceiv'd of the SEED fallen to the *right Side*, she will have some distinguishable Marks of VIRILITY; such as a *large Stature*, *robust Members*, *dusky Colour*, *rough hairy Face*, *coarse Voice*, &c: And that because the Conception happen'd in that Place, which Nature had appropriated to the *Male*.

THIS likewise seems to be the best Reason which may be given why *some Women*, like *Hector's WIFE*, mentioned in *Homer's Iliads*, are naturally inclin'd to intermeddle with MEN'S Affairs; for having thus (as it were) originally invaded his RIGHT *ex traduce*, they are always for maintaining their *wrong Conquests*, and defending their *unjust Possessions* in future Progress of Time.

BUT I should rather in this Topick agree with *Veltbuyfius* ||, that Both SEEDS are each of them naturally endued with the Faculty of generating its Like: I mean, the MAN'S, to produce a *Male*; and the WOMAN'S, a *Female*: And that therefore by a natural Predominancy, where the *Masculine Faculty* has prevail'd, a MAN-CHILD is begot; and a GIRL, where the *Feminine Virtue* has exceeded it.

THIS, in short, is the best and only Reason I know, why *Children* like to either Parent in SEX, may yet differ in *Physiognomy*, *Manners*, &c: the SEED of the one perhaps prevailing in making the SEX, and That of the other, in determining the rest of the Parts. Hence it is, in all Probability, that a CHILD like his Father in SEX, may be like his Mother in natural Disposition and Tendernefs of Constitution. Although by the way (without doubt) the Place or Sinus of the WOMB, Matter, Heat, and Imagination of the WOMAN, contribute very much to the Difference of the SEX; as will hereafter more plainly appear at large.

Chap. 7. Of the IMAGINATIVE FACULTY. 57

AND, in fine, *This* is the only Cause of the Conception of HERMAPHRODITES, that the emitted Substance of BOTH PARENTS containing the full respective Faculty of EACH, is sufficiently prolifick and prevalent to constitute and distinguish each proper SEX, in one and the same personal Production. But before I proceed farther on the Similitude of Children, I beg leave previously to describe the Force of IMAGINATION.



C H A P. VII.

Of the Power of the IMAGINATIVE FACULTY.

THE Imagination is the strongest and most efficacious of all the SENSES; for the Vivacity of all the others (mention'd in Sect. I. Chap. 5.) in some measure, depend upon it.

IT works upon, and affects, others as well as ourselves, and operates in the very Soul, as well as Body of Man; moving the Powers of all the Passions of the Mind.

AS it happens frequently by reason of the Similitude of things; that by seeing or imagining ONE to eat some sharp or sour Matter, or hearing it only mention'd, ANOTHER'S Teeth may be set on edge, and his Tongue wax tart; so by seeing One gape, Another often falls a yawning. In like manner, as the sight of any filthy Thing causeth Nauseousness; so the sight of Man's Blood, makes many Persons fall a-swooning.

GUILLAUME de Paris writes, that he saw a Man, who at the SIGHT of a Medicine, went to Stool as oft as he pleas'd, tho' it neither in Substance, Odour, or Taste, did affect him; but only by an Apprehension of a kind of Resemblance. Which is much the same Case of one in a Dream, who thinks he burns and is in a Fire,
or

or as much tormented, as if he did *really burn*, tho' far enough from any Substance of *Fire*; only because of a *Resemblance* apprehended by the Strength of *IMAGINATION*.

AND besides, this *IMAGINATION* hath not only such Power over the *Body*, but also over the very *Soul* of *Man*; which Power of the *Soul*, hath its respective *Influence* upon the *Body*: As *Avicen* remarkably describes a certain *Man*, who (when he pleas'd) could affect his *Body* with the *PALSY*.

IT is wonderfully related of *Gallus Vibius*, that he became *Mad*, not casually, but on purpose; for whilst he imitated *Mad-Men*, he so assimilated their *Madness* to himself by the *Counterfeit*, that he fell at last into real *MADNESS*.

ST. *AUSTIN* mentions *some Men*, who could move their *Ears*; and *others* who could move the *Crown* of their *Heads* to their *Foreheads*, and *replace* them at *Pleasure*. He writes of *Another* also, who could sweat whenever he had a mind.

I have likewise known *some Persons* myself, who could weep and shed abundance of *Tears* at Will and *Pleasure*; *others*, who could bring up what they had *swallow'd* of any kind, as *Gold*, *Silver*, &c; and *others* again, who could so naturally *imitate* and express the *VOICES* of *Birds*, *Cattle*, *Dogs*, &c; that they could not easily be distinguished.

YEA, and farther yet, many *Learned Authors* * testify by divers Examples (of *Cajetava*, *Æmilia*, &c.) that *Women* have been turn'd into *Men*: Which some would persuade us to believe, to be an *Effect* of the Force of a vehement *IMAGINATION*, acting upon the *Soul*, with which it is of a near *Affinity*, beyond all the Power of *SENSE*.

* Pontan. l. 10. de reb. Cœlest. Jul. Alexandrin. de Salubrib. c. 14. Amat. Lusitan. Cent. 3. Cur. 39. &c.

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AS to this Point, I am no ways to question the *Veracity* of what so many excellent Men have confirmed; but (granting it to be so) I think we may find more probable *Reasons* for it, than all the *Powers* of *IMAGINATION*, how great soever and marvellous they may be: Whereof I shall mention *That*, which seems to be the most *rational Cause*; viz. An extinguish'd or latent *forming Faculty**, which (however) sometimes has exerted itself again, like the *BLAZING* of a raked or resuscitated *Fire*.

FOR as our *Teeth* take their Beginning in the *WOMB*, but are perfected *without*, as *Bartholomæus Eustachius* teacheth; and as the *Teeth*, call'd *Dentes sapientia*, are generated, and break out, even after the 30th Year of our Age: So it may be, that the *virile Genitals* have been imperfectly begun in the *WOMB*, and that this *forming Faculty* has only perfected them by little and little; so that at last they have sprung forth and appear'd, after shaking off the *Pudendum*. And consequently such *WOMEN* as *Those* (upon *Dancing-Bouts*, or the like, when the *Blood* and *natural Heat* had been strongly exagitated) have turned into *MEN*.

HOWEVER *That* be, I very well know that when the *Soul* is elevated and inflam'd with a fervent *IMAGINATION*, it may not only affect its own proper *Body*, but also *That* of *ANOTHER*.

FOR the *Longing* of a *Woman* that has conceiv'd, acts apparently upon *Another's Body*, when it marks the *Infant* in her *WOMB* with the *Figure* or *MARK* of the *Thing* long'd for: Besides, who knows not that *one Body* may be easily affected with the *Vapours* of another diseased *Body*? As is plain in Cases of *Plague*, *Leprosy*, and several other *Distempers*. Thus also in the *Effluvia's* or *Vapours* of the *EYES*, there is so great a *Power*, that they can bewitch and infect the *Beholders* about them; as the monstrous *Catoblepas*, and *Cockatrice* or *Basilisk*, kill *People* with their very

* *Herc. Sax. Prælect. pract. part 3. cap. 3c.*

Looks *. So in like manner *Witches* by their intent Desire to hurt, have been thought to bewitch Persons most perniciously by their steady malicious *Looks* only, directed and inforc'd by *IMAGINATION*.

NOW this Force of *IMAGINATION* affecting other *Bodies*, holds good even among *Brute-Creatures*; as One bit by a *Mad Dog*, presently falls a-raging, and the *LIKENESS* of *Dogs* is clearly impressed upon his *Urine*. Moreover, by *IMAGINATION* in time of copulating, *PEACOCKS* and other *Birds*, impress a particular Colour upon the *Wings*, &c. of their Brood; and from hence it is, that the Curious may have store of *white young-ones*, by hanging the *Places* where they couple with white *Linnen-Cloths*, *Papers*, &c: As in *Snowy Mountainous Countries* we find always *white Peacocks*, *Quails*, *Wolves*, *Hares*, and other *Creatures*.

AND This holy *JACOB* † was not ignorant of, when he used that ingenious subtle *Stratagem* of placing *white-streaked Rods* before *LABAN's Flocks*; which also answer'd effectually, in the *Cattle's* producing their *speckled and white spotted Young*. In like manner by the same *Experiment*, the curious Admirers may be supply'd with Variety of *spotted Birds*, *speckled Horses*, *Dogs*, &c.

THE *Mind* also being inflam'd with a vehement *IMAGINATION*, may affect both the *Soul* and *Body* of ANOTHER: Which we need not wonder at, considering how much more powerful, fervent, and prevalent the *MIND* is in its *Motion*, than any exhaling *VAPOURS*; and that it does not want its proper and peculiar *Mediums* by which it may operate.

THIS (I think) is also evidently shewn from the many *MIRACLES*, which we find have been done by *Prophets*, *Apostles*, and other *Holy Men*; (not to mention those *Wonders* of *Pythagoras*, *Apollonius*, *Empedocles*, &c.

* Plin. Nat. Hist. lib. 8. cap. 21.

† Genes. xxx.

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which cannot come in Competition with the Others, being ascrib'd to *Natural Causes*): Whose *Minds* being firmly fix'd upon *God*, with full Intent for *Good*, affected both the *Souls* and *Bodies* of others, as well as *Themselves*, with what *Divine Gifts*, or other *Blessings*, they wanted.

HENCE it is that *Philosophers* advise, to shun the *Society* of wicked and impious Men; because their *Souls*, being full (as it were) of pernicious *Rays*, infect them who are near, with a resembling *Contagion*: As they enjoin likewise on the other hand, to keep and frequent the *Fellowship* of good and fortunate Men; because (by such a *Proximity*) they are diffusive of their own *Good*, and infuse it into *Those* about them. For as *Bad* of something bad, so *Good* of something good, always descends and adheres to the *nearest*; which virtually (like the *Smell of Musk*, or *Assa-Fœtida*) continues a long time its lasting *Impression*.

HERE might be indeed a great deal said upon the *EFFICACY* of the *Constancy of the Mind*; but because I've already been too prolix on this *Head*, I shall only observe, that in all our *Business* and *Applications*, a strong *IMAGINATION*, zealous *Affection*, firm *Hope*, and stedfast *Belief*, are great *Advantages*, and necessary *Helps*. As some most excellent *Physicians* have experimentally verified this *Notion*, that a strong *Belief*, and constant *Hope*, together with the *Love* and *Confidence* of the *PATIENT* towards the *Physician*, conduce very much to the *Recovery of Health*, and sometimes perhaps more than the *Medicine* itself: Because the firm *IMAGINATION* of the honest *Physician* concurring (in effect) with the *Medicine*, and strongly hoping it will do him *Good*, he thereby influentially changes the *Symptoms*, and virtually alters the *Qualities* in the *Body* of the *Sick*; especially if the *PATIENT* reposes an entire *Confidence* in him, by which means he becomes mutually disposed to receive the *VIRTUE* of the *Physician*, as well as *That* of the *Physick*.

THE

THE * *Arabian Philosophers* join'd in this Opinion, establishing it for a *Fundamental Maxim* among them; that *whatever the constant Mind affected with a fervent Desire, would be effected*: As in the Case of the MIND of Him, who is vehemently in *Love*, whatever it affects, has an *Efficacy* to cause LOVE; and so in other such like Cases.

BUT however, to come closer to the IMAGINATION of the Pregnant Woman, who knows not that it affects the INFANT in the Womb? Whence is it then that we have so many deform'd Persons, crooked Bodies, ugly Aspects, distorted Mouths, wry Noses, and the like, in all Countries; but from the IMAGINATION of the Mother; while she either conceives such shapeless Phantasms in her Mind, or while she frequently and intently fixes her Eyes upon such deform'd Persons or disagreeable OBJECTS? Wherefore it is very wrong, and highly imprudent in Women that have conceived, to please themselves so much in playing with Dogs, Squirrels, Apes, &c. carrying them in their Laps or Bosoms, and feeding, kissing, or hugging them, as I have both often heard, and seen with my own Eyes.

AND besides, the same is the Case, when the Natural Faculties are all at work in forming, or ripening the FOETUS; for if the Woman be surpriz'd at any sudden Evil, or frighted at any unseemly Sight, the Humours and Spirits presently retire downwards, and (as it were) abscond themselves in the Recess of the WOMB: From whence immediately a strong IMAGINATION of the disagreeable Thing (whether seen or heard only) seizes her Mind; and the Forming Faculty (going on in the Interim) quickly impresses the Imaginary Idea of That thing heard off, or the Shape and Form of That thing seen, upon the FOETUS. The same is the Reason, that if a Mouse, Rat, Weazel, Cat, or the like, leaps sud-

* Thom. Aquin. contra. Gentil. lib. 3.
lib. de Occult. Philosoph. &c.

Hen. Cornel. Agrip.

denly upon a *Woman* that has conceived, or if an *Apple*, *Pear*, *Plum*, *Cherry*, &c. fall upon any part of her *Body*; the *MARK* of the thing (be what it will) is instantly *imprinted*, and will manifestly appear on the same *Part*, or *Member* of the *CHILD*: unless the *Woman* (in that very *Moment*) wipe *That Part* or *Member*, and move her *Hand* to some more remote, private, or convenient *Place* of the *Body*: which done, the *MARK* is actually averted, or at least stamped upon the other *Part* touch'd, where the deep *Impression* of the *Mind*, directs, and fixes the *IMAGINATION*; and whither the *Forming Faculty* (not so much by any *Virtue* of the simple *Touch*, as by *Force* of the strong *IMAGINATION*) infallibly converts it.

I N fine, having thus briefly defin'd, and variously described the *Powers* of *IMAGINATION*, I come in the next *Place*, more particularly, to treat of the *Reasons* of *SIMILITUDE* in *Children*.



CHAP. VIII.

Of the SIMILITUDE of Children.

W HATEVER may be advanced on this *Head*, the most probable and solid *Reason* for the *Child's Likeness* or *Resemblance*, is the *IMAGINATION* of the *Mother* in the *Act* of *Copulation*; together with the *Liberty* she gives herself in her *Thoughts* and *Actions*, during the *Time* of *Formation*, commonly call'd the *Time* of *Breeding*.

HENCE it is, that whatever she intently fixes her *Eyes* upon, or *conceives* and *impresses* in her *Mind*, the *INFANT* represents the same in its *extimous Parts*: And particularly whatever *OBJECT* she directs her *Eyes* or *Thoughts* upon, in the *Interval* between the *Embrace* and the *Charm*, its *Effigies* is afterwards manifest in the
CHILD.

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CHILD. As St. Jerom thus relates of a certain Woman, who conceiv'd and brought forth a Black-Child, tho' both She and her Husband (the real Father) were white; meerly by eying a PICTURE in the Bed-Chamber at that critical Juncture.

UPON this Chapter * Pliny has most elegantly express'd the Artifice of NATURE, together with all the Reasons and Causes of SIMILITUDE, to this Purpose; viz. "The Cogitations of the Mind make much for the SIMILITUDES and RESEMBLANCES of Children: As many other accidental Occurrences are thought to be very efficacious in the same, and that whether they come by Sight, Hearing, or calling to Remembrance; or by Imaginations conceiv'd, and deeply apprehended in the very Act of Generation, or the very Instant of Conception: The inconstant Mind, and wandering Thought, of either Parent, is justly Suppos'd to be one Cause."

HENCE it is, that some Children favour and resemble their Fathers, some their Mothers, some their Grandfathers, or Mothers, and some their Kinsmen: And hence also it is, that there is more Difference and Diversity in the Rational Kind, than in all other Creatures; because the Velocity of their Thoughts, the Celerity of their Minds, and the Variety of their Dispositions, impress a far greater Diversity of various peculiar MARKS: While the rest of irrational Creatures have their Minds continually fixed (in a manner) immoveable, steady, and alike: every One of them in its own peculiar Kind, and specifick Nature.

INSOMUCH that the Woman's IMAGINATION frequently induces a strange Likeness to her INFANT; that is, in no Part, and in no Respect, favouring the FATHER. From whence it often happens, that a Woman abusing her HUSBAND's Bed, and fearing

* Lib. 7. Cap. 12.

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perhaps to be surpriz'd by him in the *ACT*, brings forth (in due time) her *CHILD*, no ways resembling the real *FATHER*, (namely the *GALLANT*); but altogether *LIKE* to the injur'd *HUSBAND*.

UPON which Case the following facetious *Epi-gram* was occasionally written by the famous and celebrated Sir *Thomas More*.

" Quos ante Conjux quatuor
 " Natos, SABINE, protulit,
 " Multum ecce dissimiles tui,
 " Tuos nec ipse deputas.
 " Sed quem tibi puellulum
 " Enixa jam nuperrimè est,
 " Solum tibi simillimum,
 " Pro quatuor complecteris.
 " Adulterinos quatuor
 " Vocas, repellis, abdicas.
 " Atqui graves tradunt Sophi,
 " Quodcunque matres interim
 " Imaginantur fortiter,
 " Dum liberis datur opera,
 " Ejus latenter & notas
 " Certas, & indelebiles
 " Modòque inexplicabili
 " In semen ipsum congeri.
 " Quibus receptis intimè,
 " Simulque concrefcentibus,
 " A mente Matris insitam
 " Natus refert imaginem.
 " Quum tot abesses millibus,
 " Dum gignit Uxor quatuor,
 " Quòd esset admodum tui
 " Secura, dissimiles parit.
 " Sed unus omnium hic Puer
 " Tui refert imaginem,
 " Quòd mater hunc dum concipit,
 " Sollicita de te plurimum,
 " Te tota cogitaverat,

F Dum

“ *Dum pertimescit anxia,*
 “ *Ne tu, SABINE, incommodus,*
 “ *Velutque lupus in fabulâ*
 “ *Supervenires interim.*

HOWEVER, as to what relates to the *Tempers, Dispositions, Mien, Manners, Qualities, and Propensions* of the MIND, daily *Examples* convince us, that *Children*, after all, generally much resemble *Those* of their *Progenitors*; which proceeds merely from the *Efficacy* of the SEED, containing the Power of the natural *Faculties* of their Minds and *vital Spirits*, which are thence infus'd into their *Posterity*.

BUT I take this *Matter* to depend much upon the *Passion, Indolence, or Indifferency* of the Mind, with which the *Act of Copulation* is perform'd. For as the *Ardour and Fervency* of the *Parents*, and their plentiful *prolifick Contribution*, tend much to the *CHILD's* affecting the same *Behaviour, Gestures, Actions, Temper, and Motions* of BODY and MIND; even sometimes to their representing the very *Nature*, and treading the very *Foot-Steps* of their *PARENTS*, to so nice a degree, of an exact *Resemblance*, that I've more than once observed a *MOLE-MARK* of a *Father* plainly impress'd on his *Child*. Which, I think, is also conformable to * *Horace's* Meaning;

“ *Fortes creantur fortibus & bonis :*
 “ *Est in Juvencis, est in equis patrum*
 “ *Virtus : nec imbellem feroces*
 “ *Progenerant Aquila Columbam.*

To valiant *Fathers*, valiant *Sons* succeed ;
 Thus *Bulls* from *Bulls* descend, and martial *Horses* breed.

AND because the *Institution of Nature*, perfects its own *Gifts*, which, by the *Help of Education*, corrects

* Lib. 4. Od. 4.

Errors, and abolishes *Blemishes*; the *Poet* very pertinently adds,

“ *Doctrina sed vim promovet instam,*

“ *Reliq; Mores pectora roborant.*

Yet the best *Blood* by *Learning* is refin'd,

And *Virtue* arms the solid *Mind*;

Whilst *Vice* will stain the noblest *Race*,

And the paternal *Stamp* efface.

BUT, however yet, there are many *Parents* still less falacious and less fervid; who rather vilify, than cover, and rather abstain from, than delight themselves in this *Encounter*. In short, there are some of both *Sexes*, who, in patiently gratifying their active *Consorts*, esteem it rather a sort of *Hardship* and *TASK* for *Family-Quiet*, than any incumbent *DUTY* of *Nuptial Benevolence*: Which * *St. Paul* seems to allude to, by calling it the *defrauding of one the other*.

FROM hence it is, that *Children* often degenerate from the *Nature* and *Qualities* of their *PARENTS*; from hence also it is, that *brisk Men* sometimes have *stupid*, and *wise Men* frequently beget *foolish Children*. This happens only because of the *Indifferency*, *Indolence*, or *Coldness*, either of *Mind* or *Constitution*, in their *Conjugal Pleasures*: The dull heavy *Faculty* of their *Inclinations* to the *Act*, being diffus'd and transmitted through the *SEED* into the *Infant*, according to *Catullus*;

“ *Naturæ sequitur semina quisque suæ.*

BUT farther still, the *SEED* flowing from the principal *Parts* of the *Body*, comprehends in itself the *Vigour* and *Quality* of their respective *Members*: Whence it follows, that *Diseases*, *Imperfections*, *Blemishes*, or any

* 1 Cor. 7. 5.

other *Deformity*, inherent in any *Part* of the *PARENTS*, becomes commonly *hereditary* to their *CHILDREN*.

T H I S is the Case of the whole *Dutchy* of upper *Styria*, where all the *Natives* have a huge *Excrecence* of *FLESH*, which grows up with the *Body* (however visibly increasing and decreasing with the *MOON*) generally lying upon the *Left-side* from the *Jaw-bone*, and hanging downwards: So that the *Women* giving *SUCK* of that *Breast*, commonly cast this *carnous Excrecence* (which they call *CRAPE*) over their *Shoulders*. This is so *Natural* to them, and remarkable, that in a Journey once from *Venice* to *Vienna*, passing thro' the chief Town of that Country, call'd *Judenburg*, I had the Curiosity to go off the *Post-Waggon*, into the *Church*, with five other *Gentlemen*, *Fellow-Passengers*, to be better satisfy'd of the *Truth* of it. The *People* were at *MASS*, but the sight of us soon confounded, or at least disturb'd their *Devotion*; for in a *Moment*, the *Eyes* of the whole *Congregation* were staring upon us, wondering to see so many *deform'd Men* (as they call'd us) in that Place at one Time.

A N D the same is the only Reason, that most *Children* in *Spain* and *Portugal*, are born with some *SYMPTOMS* of the *Venereal Disease*; which, however, is without any infectious *Malignity*, and so *Natural* to them, that they seldom apply to the *Doctor* for *CURE*, until the Case becomes more dangerous or desperate by the *Party's* own Means: which generally happens to them in a very few Years, being exceedingly *Salacious* from their *INFANCY*, because of the stimulating *Acrimony* of the *putrid Humours* of the *Body*, which they only strive to mitigate, or allay, by continual *WHORING*.

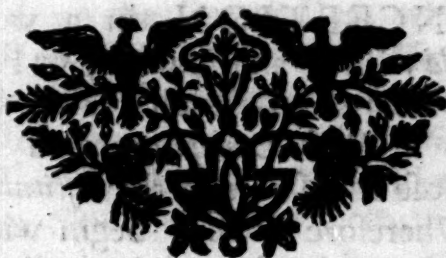
F R O M what's already said, we see that the *Efficacy* of the *Father's SEED* is very considerable; in-somuch, that indeed many calamitous *Misfortunes* may derive from it, to his *Posterity*: But it is, however, to be strictly observ'd, that what *Disorder* soever of a vicious Nature derives itself this way from the *Mother*, hath yet the greater *Malignity*, and more powerful
Effect

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Effect upon her *CHILDREN* *; the *Habits* of her Body, Good or Bad, her *Virtues* or *Vices*, taking still a deeper *Root*, or firmer *Footing* in the Constitution of the *Fœtus*. Which *Distinction*, in short, must needs be a most plain *Case*, considering that the *Maternal Blood* is its chief *ALIMENT*, and the very *secondary ORIGIN* of its *Procreation*.

AND this, in fine, is the only *natural Reason* to be given, why many *Things*, no ways commendable in either *SEX*, are the less excusable in the *WOMAN*.

* *Marcus Marci de Ideis Operatric. Horstius Tract. de Caus. Similitud. Fœt. cum Parent.*





S E C T. III.

Of CONCEPTION.

Wherefore I shall begin with *This*, and conduct the *Woman*, who has truly and naturally conceiv'd, thro' the different *Stages* of Life she is to pass; describing plainly, and laying before her the many various *Scenes* of every respective *Stage*, which can any ways affect her Person.

IN this nice Affair, like a faithful PILOT, in a narrow Channel, I shall not only point-out the *Barrs* and *Rocks*, on which she may be *Shipwreck'd*; but also direct and prescribe her *Course*, by which she may *sail safe* into her wish'd-for PORT: Where when I have duly secur'd *Herself* and her *Cargo* to the Best of my Capacity,

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Capacity, I shall thereafter proceed in their Order, to treat of the different *Praternatural Conceptions*; as I shall in this place now discourse only of the *Natural*.

THIS *Natural Conception* then, is the first principal *Action*, and peculiar *Function* of the WOMB, in duly commixing and fomenting the retain'd SEEDS of *Man* and *Woman*: Since as the SEED of *Plants* requires the Matrix of the *Earth*, to nourish it well, and safely defend it; so doth That SEMINAL *Virue* of *Men*, the WOMB, in this *Act* of CONCEPTION.

BUT as to the *Time* of CONCEPTION, I cannot but differ from *These*, who protract and put it off till the *seventh Day* from the first *Seminal Retention*; for I am clearly of Opinion with *Lud. Mercatus**, that if the SEED be retain'd *seven Hours*, the *Woman* hath CONCEIV'D: Neither can I find sufficient Reason to think *Nature* one Moment Idle, much less *seven Days*. Therefore CONCEPTION ought to be reckoned, from the very *Day*† of the *First Retention*.

HOWEVER yet, it is certain that, if the *Debility* of the SEED, or WOMB, or Both, happen to hinder or impugn the Work, *Nature* ejects the GENITURA, of *Thing conceiv'd*, on the *seventh Day*; which Time is the common *Crisis* of all *Diseases*, and *Morbifick Accidents*; Whereas if no such *Effluxion* happens about that Time, CONCEPTION || is certain, and *Formation* goes on.

THIS *True CONCEPTION* is likewise known by many various *Signs*; whereof I shall mention a Few, not out of any vain *Curiosity*, but meer *Necessity*: Because, supposing a *Woman* to labour under any dangerous *acute Disease*, it is of the greatest *Importance*, to be certain, whether she hath conceiv'd, or not; by reason that the Means of her *future Relief* must (of *Necessity*) be adapted to her *present Condition*.

* Lib. 3. de Morb. Mul. cap. 6.

† Hipp. lib. de Genit.

|| Aristot. lib. 3. de Histo. Animal. cap. 3.



C H A P. II.

Of the Signs of CONCEPTION.

THE Signs of CONCEPTION are many and various, and accordingly some more, some less *certain*, as hereafter set forth; whereof I shall only mention such as are most common and familiar to the *Generality* of WOMEN: *viz.*

I. THE *Retention* or *Suppression* of the MENSTRUUM; when not occasion'd by some other *Indisposition*.

II. SUDDEN *Weakness*, *Feebleness*, and *Imbecility* of the Body and Limbs.

III. LAZINESS, *Weariness*, and *Sleepiness*, with a *Heaviness* of the whole Body; but especially of the *Reins* and the *Thighs*.

IV. A sort of little SPOTS, or hard WARTS, arising in the *Face* and *Forehead*.

V. A small Pain about the NAVEL, and *Commotions* in the lower BELLY.

VI. COLD Shivering, and trembling Fits; wandering Pains, and Head-Aches.

VII. LOSS of wonted Colour, sunk Eyes, discolour'd Eye-Balls: A sparkling Dimness, and Glimmering of the EYES; the Ball growing less, and the White larger.

VIII. A Protuberancy or Swelling of the VEINS, and BREASTS; their growing Hard, and giving Pain: As the NIPPLES become firm, large, and dark-colour'd, with a livid Circle around them.

THESE and many other Signs often occur upon CONCEPTION; but except a Plurality of them meet in one Person, they are not absolutely to be rely'd on: It being a *Vulgar Error* among Women, to calculate precisely from the Time of missing their MONTHS; for

as

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as *These* are often suppress'd, without any such manifest Cause; so I have known some *Plethorick* Persons, who have had them several repeated times after Conception.

Y E A, I was once given to understand by a LADY of Distinction, in the City of *Berlin*, that she never had *Them*, till she first *conceiv'd* in the 19th Year of her Age; and then they came in *regular Course*, without any *Detriment*, during the whole F O E T U R A, or time of *Gestation*: After which, she had *Them* no more, till she *conceiv'd* again, when *They* return'd, and continued as formerly; and thus it constantly happen'd to her, till she had done *Child-bearing*.

T H E R E are *other* more certain Signs of CONCEPTION; touching which, let it suffice, that the *Physician* knows them, from the *Relation* of the PATIENT: And to these may be added the *Symptoms* of the MONTHS.

B U T notwithstanding all the positive *Diagnosticks*, which most Men have been, hitherto, guided by; I have met with so many *Fallibilities* in this Point, that I shou'd readily have come into the Opinion of * *Paulus Sacchias*, and deny'd the Certainty of P R E G N A N C Y, even at an *advanc'd Time*, had I not been better instructed by Those most excellent *Physicians* and M E N - M I D W I V E S, Sig. *Garofanzzo* of *Padua*, and *Pfizerus* of *Wittenberg*; who agree in certain *infallible Signs*, which put an end to all my *Doubts*, as well as to the grand *Controversy*, touching CONCEPTION.

A S to those common Signs, which discover the CONCEPTION of a *Boy* from a *Girl*, or *Vice Versa*; finding *them* tend only to *Curiosity*, and to no real *Advantage*, I cannot think it worth while to allow them any Place Here.

* Quæst. Medic. Legal. lib. 1. tit. 3. quæst. 1.



C H A P. III.

Of the DIET and REGIMEN of the Pregnant Woman.

I Come now, agreeable to my Promise, in the *First* Chapter of this SECTION, to direct and prescribe to the *Woman conceiv'd* her due COURSE: Whom I would have to consider, *First*, that she is in a very narrow and dangerous SEA; and, *Secondly*, that, as the PILOT cannot be always upon the *Watch*; so the Safety of SHIP and CARGO depends entirely upon the Care, Conduct, and Steady Hand of the skilful STEERSMAN.

WHEREFORE the *Woman* being now satisfy'd of her CONCEPTION, she is to observe a quite different Oeconomy in her *Way of Living*, from what she formerly practis'd: Since a double Mischief may be the Result of one single Fault in this Case; the INFANT always participating of what affects the MOTHER. And therefore she is now not only to take Care of *Herself*, but also of her Embryo, or the Fruit of her WOMB; especially in the *First Months*, when it may be justly compar'd to the tender Blossoms of Trees, which are easily blasted, or shaken-off by the least Accident of Wind or Rain.

THIS Regimen, which I am about to speak of, is Two-fold; the One for such *Women* as find themselves in a good State of Health, by way of Prevention: The Other for those of the tenderer Sort of Constitutions, who begin to suffer immediately under the common Symptoms: Upon which Affair I shall give a few necessary Precautions adapted to Both, with all possible Discretion and Judgment.

I. THE *Conceiv'd Woman* then is to observe a good, wholesome, and regular DIET; since Errors committed that

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that way, with respect either to *Quantity* or *Quality*, may be of *double Damage*; I mean, both to the *MOTHER* and the *INFANT*. She should therefore eat rather *Often*, than *Much* at a *Meal*; especially at *Nights*, without fasting too long at any *Time*.

II. SHE is discreetly to avoid all unwholesome, or intemperate *Air*, and not expose herself to any *Excess* of *Heat* or *Cold*.

III. SHE must not desire rashly to walk much abroad in *Moon-Shine*, nor to wash her *Head* in *Sun-Shine*.

IV. SHE ought not to frequent *Gardens*; and that for the following *Two-fold Reason*: *FIRST*, lest perchance she happen to sit or tread upon some *Herb* of a pernicious *Quality*; as divers are, in provoking *Abortion*: *SECONDLY*, lest she covet some *Fruit* or *Herbs*, which may be of *Damage* or *Inconveniency* if allow'd, and the same if deny'd Her.

V. SHE is prudently to avoid all *Odoriferous* or *Perfum'd*, as well as *Stinking Nauseous SMELLS*.

VI. SHE must carefully shun sitting or lying hard, and also lifting any heavy *Weight*, or her *Arms* above her *Head*.

VII. SHE ought purposely to forbear all hard *Labour*, and violent *Emotions* of *Body*.

VIII. SHE is prudently to avoid all *Apprehensions* of *Fears* and *Frights*, and not to be surpriz'd at any thing she hears or sees.

IX. SHE is cautiously to decline *Watchings*, and sitting up late at *Nights*; but must indulge moderate *Sleep*.

X. SHE must not lace herself (as before) with *Whalebone-Stays*, nor use *Busks*; which may not only spoil her *Breasts* and *Belly*, but also mis-shape the *INFANT*, if *Abortion* does not immediately follow.

XI. SHE ought discreetly to suppress all *Anger*, *Passion*, and other *Perturbations* of *Mind*, and avoid entertaining too *serious* or *melancholick Thoughts*; since all such

Such tend to impress a *Depravity* of Nature upon the *INFANT'S Mind*, and *Deformity* on its *Body*.

XII. *SHE* is not to be too *Busy*, or *Attentive*, fixing her *Eyes* too much upon any one *OBJECT*; especially on deformed *ugly Persons*, or any such accidental *disagreeable Sight*.

XIII. *AS* to her *Appetite*, she ought to let the *Delphick Oracle* before her (*Nil nimium cupito*) and desire nothing but what *she can have* to her *Satisfaction*.

XIV. *SHE* must carefully avoid all strong *purging Medicines*, * especially before the *fourth*, and after the *sixth Month*: And even *Then* also, unless a *Necessity* of *turgid Matter*, or unfix'd *Humours*, oblige her to it, or require *Evacuation*. She is also likewise to abstain from all *PHLEBOTOMY* †, especially in the *latter Months*.

XV. *AS* to her *Exercise*, of what kind soever, the following general *Rule* may suffice; viz. the *first Month* she ought not to *exercise* herself at all: The *second*, but seldom and slowly: The *third*, oftner and briskly: The *fourth*, *fifth*, and *sixth*, moderately and boldly: The *seventh*, *eighth*, and to the middle of the *ninth*, she should study by degrees to reduce *Herself* discreetly, and abstain from all her wonted *Exercise*, and act very circumspectly in all *Regards*; especially || the *eighth Month*, which is the most dangerous and troublesome of all the *Time of Pregnancy*.

XVI. *LASTLY*, Let her *State of Health* be never so good, she ought to take proper *Medicines* to strengthen the *WOMB*, as well as the *FŒTUS*, in order to prevent *Accidents*, which may happen to the *strongest Woman*.

BUT as to *Women* of more tender *Constitutions*, they are not only subject to the *common Symptoms*, but often liable also to *acute Diseases*; such as *Fevers*, *Pleurisies*,

* Hipp. 4. Aph. 1.

† Hipp. 5. Aph. 31. Forest. l. 16. Obs. 38.

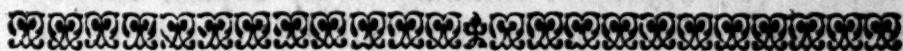
|| Rod. à Cast. de Morb. Mul. lib. 3. cap. 22.

Chap.3. of the Pregnant Woman. 77

Squincies, Inflammations, Epilepsies, Apoplexies, Convulsions, Contractions of the Limbs, Joints, &c. In which Cases, I may reasonably recommend the PATIENT to the ablest Physician; since none but the most Judicious ought to undertake them in such critical Conjunctions. Because it is no ways SAFE to use the *same Means* and Medicines with the Pregnant Woman (which those incident Diseases would otherways regularly require;) without a due Distinction and a nice Regard had to her other HABITS of Body.

THESE tender Women are also sometimes seiz'd with Chronical Distempers; such as *intermitting Fevers, lingering Coughs, &c.* But, in those Cases, PRESCRIPTIONS are not so Proper or Convenient, unless the Distemper be very severe and extremely prejudicial to the FOETUS, because they commonly wear off before the DELIVERY.

HOWEVER, be the Constitution, or Condition, of the Woman as it will, I mean, *Strong or Weak, Healthy or Sickly*, all prudent PARENTS, who desire to be bless'd with comely, tractable, and hopeful Children, ought not only to perform their Nuptial Duties with great Serenity of Mind, but also to take mutual Care to prevent and suppress all Family-Tumults or Domestick Storms: For there never ought so much as a Cloud to appear in their Conjugal Society; since all such unhappy Accidents strongly affect the growing INFANT, and intail the same Qualities of DISPOSITION almost indelibly imprinted upon it.



C. H A P. IV.

Of the SYMPTOMS of the first three Months.

THE Prolifick Seed being duly coagulated by a gentle Ebullition of its own vegetative Faculty, by the Power of the Plastick Virtue of the vital Spirits, and by the peculiar innate Quality of the MATRIX; this
inlivened

inlivened Substance produceth an *Organical Body*, of a perfectly form'd, and delineated *FOETUS*: Which *FOETUS*, according to the various *Steps* of its Progression in *Formation*, *Animation*, and *Maturation*, occasions as many various and different *Effects* upon the *BEARING WOMAN*; as necessary *Consequences* of the said three principal *ACTS* of the *Infant's* Constitution.

NOW these consequential *Effects* may be properly divided into *Three CLASSES*; which are accordingly call'd *SYMPTOMS* of the *First*, *Second*, or *Middle*; and of the last *Three Months*.

BUT it is to be observ'd by the Way, that all *Women* are not alike subjected to them; *SOME* being more troubled with *Those* of the *First*; *OTHERS* also with *Those* of the *Second*; and *OTHERS* again with the *SYMPTOMS* of the last *Three Months*. But there are *some Women*, in fine, that continue to be troubled, in the *Middle Months*, with the *SYMPTOMS* of the *First*; and in the *Latter*, with some of *Those* of the *Second*: All which happens according to their various *Regimens*, *Dispositions* and *Habits* of *Body*.

HOWEVER, to proceed methodically, with all Submission, according to what competent *Knowledge* and *Experience* I have of the *CONCEIV'D WOMAN*; the *SYMPTOMS* most common to *Her*, in the *First Three Months*, may be briefly reduced to the following principal *Eight* in Number; namely, (1.) *Vomiting* or *Nauseating*. (2.) *Fastidy* or *Loathing*. (3.) *Pica* or *Longing*. (4.) *Painful Cholicks* or *Gripes*. (5.) *Diarrhea* or *Looseness*. (6.) *Tooth-Aches*. (7.) *Head-Aches*. And, (8.) *Swimmings of the Head*. Of all which, I shall now separately treat in their Order.

C H A P. V.

Of VOMITING, or NAUSEATING.

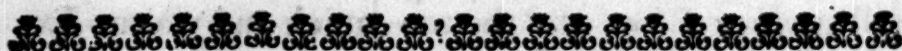
VOMITING is a strong and sudden *Contraction* of the whole *Stomach*, occasion'd by the *Animal Spirit's* being preternaturally *expanded* in its *orbicular* as well as *oblong Fibres*, and the too quick and violent *Exertion* of their *Elastick Power*: Or otherwise, it is a *Convulsive Motion* of the *Stomach*, whereby, when the *Fibres*, which compose its middle or *muscular Tunick*, are all at once strongly contracted, it endeavours to eject through the *Oesophagus* and *Mouth* the Contents of its *Cavity*; to which the *Gullet* itself (being of a piece with the *Stomach*) and the *Muscles* of the *Belly* contribute not a little.

WHICH *Definition* comprehends the *immediate Cause* of all *Vomitings*; and tho' there be many external and internal *mediate Causes*, yet, I think, in the present Case of the *pregnant Woman*, the Cause of this SYMPTOM proceeds chiefly from the *Vapours* of the exhaled HUMOURS, and the worse Part of the BLOOD; infesting the *Tunicks* of the *Orifice* of the VENTRICLE, and flying into the *Cavity* of the STOMACH.

WHICH, if *slightly* affected, occasions only a *nauseous Spitting*, or *gentle Vomiting*; but if more *severely*, it excites a far worse *Vomiting*, with a certain grievous *Pain* and *Torment* of the Person afflicted. Now if those *Vapours* be of a *calid Quality*, they commonly occasion a stinking and burning kind of *Belching*; but if *frigid*, perhaps, on the contrary, a troublesome sour, acid, *breaking of Wind*: Both of which promote *frequent Vomiting*, that carries off the *vicious Juices*; so that the SYMPTOM commonly ceases (of itself) in the *second* or *third Month*. Wherefore this ill *Habit* need not be industriously restrain'd, unless very *Troublesome*; as in the above-

above-mention'd *Case*, when attended with extreme *Severity of Pain*: For *then* it is not without *Danger*, and therefore requires immediate *Remedy* or *CURE*.

WHICH *Cure*, I humbly conceive, may be judiciously effected by expelling the *Cause*, and strengthening the *Ventricle*; so that it may be capable to repel those *Vapours*, or *Humours*, ascending from the *WOMB*; and may either entirely subvert or repress *Those* previously receiv'd.



CHAP. VI.

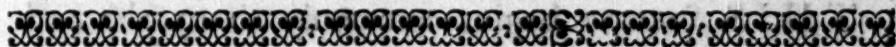
Of FASTIDY, or LOATHING.

THE *Cause* of this SYMPTOM proceeds from the worse Sort and more ignoble Part of the BLOOD; which, in concert with the *Humours*, perverts the *Temperature* of the STOMACH, by flowing towards its Orifice: And *This*, upon emitting *Vapours* to the same, strongly impresseth such *vicious Qualities* upon it, as doth occasion sometimes a LOATHING of *All Meats*, and sometimes only an *Aversion* to some certain particular *Dishes of Meat*.

WHICH last *Case* happens most commonly, and especially at the Time of *New* and *Full-Moon*. Now this LOATHING may be *thus* distinguished: To wit; if it rises from *bilous* or *choleric Humours*, the WOMAN feels a gnawing or biting of the *Ventricle*, and is afflicted with a frequent *great Thirst*: If from *putrid Humours*, she is (at several Times) *feverishly inclined*: And if from *moderate gross Humours*, the only SIGN is a frequent *Spitting*.

THIS *Symptom* ceases (of itself) in due Progress of Time: For as the FOETUS (which as yet is only sustain'd by the better and nobler Part of the BLOOD) grows bigger, it requires the larger Quantity, and at last

last the WHOLE of the *Menstruous BLOOD* for its *Sustenance*; at which Time also the accumulated *Humours* likewise are lodg'd in their proper Place: *Both* which *Causes* being thus remov'd, the *Effect* ceases of course by degrees. However it is prudent, to prevent this *Evil*, from the beginning of Conception, by proper *Medicines*; but otherways (whenever it happens) unless the *Fœtus* be endanger'd for want of sufficient Aliment, Time and Patience are the fittest *Remedies*.



CHAP. VII.

Of the *PICA* or *LONGING*.

WOMEN subject to this SYMPTOM, are indeed desirous of *Meat* and *Drink*; yet commonly of such, as is not only disagreeable, but also offensive and prejudicial to NATURE.

THE violent *Excess* of this vicious or degenerate Appetite is wonderful; as frequently appears by many *unnatural Instances*, which I shall forbear mentioning in this Place, for fear of ill Consequences; so that I can only recommend the Curious to the * *Authorities* of the MARGIN.

THE Cause of this SYMPTOM proceeds from the various *Humours* of deprav'd Qualities, inherent in the Tunicks of the STOMACH, vitiating the Ferment of the VENTRICLE; and so affecting the Orifice, that it becomes the very Seat and Source of this Evil: from whence arises the Variety of the *Humours*, exciting a strange and uncommon Variety of APPETITE.

* Trincavel. lib. 3. de curand. partic. hum. Corp. Affect. cap. 5. Forest. lib. 8. Obs. 7. Ludov. Vives in Comm. ad lib. 27. August. de civit. Dei, cap. 25. Lang. lib. 2. Epist. 12. Florent. Serm. 5. tract. 4. cap. 36. Brasavol. Comm. ad lib. 5. Aph. 24. Hippo c. &c.

THE *Nature* and *Quality* of these *HUMOURS*, have occasion'd many learned *Disputes*, which yet remain undecided. But tho' *Platerus* takes upon himself to call them *Malignant* and *Poisonous*, yet it is the *Opinion* of many learned *Men*, and as excellent *Authors*, that *They* are not to be justly accounted for, any farther than that they are of an *occult perverse Quality*, generated in the *STOMACH*, from irregular *Diet*, improper *Food*, and bad *Concoction*, attended with an *erroneous Regimen* in other *Cases*.

THIS *Symptom* begins commonly about the 40th *Day* from *Conception*, and continues to the 4th *Month*: Against which time, part of the *vitious Humours* are excreted or thrown up by *Vomiting*, and the Remainder (by degrees) imbib'd by the growing *Infant*; which *Humours* being so consum'd, the *Distemper* ceases of *Course*.

THIS *Effect* is more extreme and disorderly in bearing a *GIRL* than a *Boy*; the *pituitous Humours* having less *Concoction*, because of the want of requisite *Heat*: Which for the same Reason also occasions disagreeable *Flatulencies*, *Belchings*, and *Fluctuations*.

I have, in the *Course* of my *Experience*, observ'd this *Evil* to be most common in *Holland*; partly because of the *thick condensed Air* of the *Country*, and partly because the *Commonalty* of the *Women* live but on gross and cold *Food*, *Fruit*, *Acids*, &c. and are consequently of a cold humid *Temperature*, very subject to this *Evil*.

THE *Diagnostick Signs* of this *STMP T O M*, are *Weakness* of *Body*, *Dissolution* of *Limbs*, *Gnawing* of *Stomach*, *Loathing* of *wholesome Food*, (and even *That* very often which the *Party* lov'd before) *Anxiety*, *Pensiveness*, frequent *Spittings*, and (at several times) *Vomitings*.

IF the *Ventricle* or *Stomach* is only slightly affected with some sort of *viscous* and *frigid Humours*, the *Party* generally longs for *sharp* and *tart Meats*; if with *calid* and *hot* ones, she craves for those which are *bitter* and *biting*: But if more severely affected, with *Humours* of some

some perverse occult *Quality*, she longs for *strange unaccountable Matters*; and hence it is that all monstrous *APPETITES* proceed.

BUT if such *Humours* become *Connatural* to the *Woman*, by the deep *Impression* of *Diuturnity*, she longs for things resembling the very same *Nature* of the *Humours*: As for Example, if they be of a *burning* or *parching Nature*, she covets to eat *COALS*, *CINDERS*, &c. if of a *gross* and *thick Quality*, *CHALK*, *LIME*, &c. if of a *Saltish Kind*, *SALT* itself: if of a *Melancholick Temper*, *EARTH*, *CLAY*, *DUST*, &c. For because, as the *Thing containing* changes the *Contents*, so the *Contents* (in process of time, by Force of constant *Impression*) change the *Thing containing*. In like manner as *deprav'd Wine* imparts a vitious *Taste* or *Savour* to the *CASK*, so those *Humours* convert the *Temperature* of the *STOMACH* into their own *Natural Qualities*.

THE Similitude and Dissimilitude of *Humours* and *Temperature*, may be thus known and distinguished, viz. The *APPETITE*, longing for things of a *like* or *resembling Nature* (as above), remains still *unsatisfy'd*, tho' plentifully indulg'd with the *Thing desir'd*: Whereas the *APPETITE* of *different* or * *discording Things*, having obtain'd the *Thing long'd* for, is easily *satiated*, and immediately ceaseth.

THIS *Malacious* or *Lusting SYMPTOM*, is most dangerous; degenerating commonly into a *Cacochymy*, *Dropſy*, *Phthifick*, or some other heavy *Disease*.

BUT the greatest *Hardship* or *Misfortune*, after All, is *This*; that, if the *Woman* doth not indulge her corrupt *APPETITE*, she *languishes* and *pires* to such a degree, that her † *Life* is often endanger'd, together with the *FOETUS*, by the *Disappointment*: and if she

* Rod. à Cast. de Morb. Mul. lib. 3. cap. 11.

† Florent. Serm. 5. tract. 4. cap. 36. Brasavol. 5. Aph. 24. in Comm. &c.

does so gratify herself, *This* often proves of the worst of Consequences, even sometimes to a mortal Fatality.

HOWEVER, in short, this *SYMPTOM* is like many *Others*, more easily prevented, than cur'd : Wherefore all *Women*, as soon as they conceive, ought (at repeated Times) to use proper *Anti-kitten Medicines* (that is, against *PICA* or *Longing*) and be very careful of their *Regimen* and *Diet* : But when, perhaps, by neglect of those *Means*, the *Distemper* appears inordinate, the Method of *CURE* consists in evacuating the *Humours*, and in absterging, altering, and corroborating the *STOMACH*.



CH A P. VIII.

Of CHOLICKS and GRIPE S.

TH O' the *Cholick* derives its Name from the Gut Colon, I mean by it not precisely that *Pain* which affects *This* only, but that also which usually invades other *Guts*, whether thin or thick ; because one *Gut* seems not to be more subject than another to this Pain ; the *Contexture* of all of *them* being the same every where. So that the *Cholick* is nothing else than a sorrowful *Sensation* of a very sharp *Pain*, infesting the *Guts*, or the *Nervous Plexus*, or *Membranes* in their Neighbourhood, proceeding from wandering *Winds* and *Flatulencies* in the *ABDOMEN*, or lower Belly ; arising from the *Humours* aggregated about the *WOMB* : which, dissipating themselves, distend the *Intestines*, and excite most severe *Pains* about the *NAVEL*.

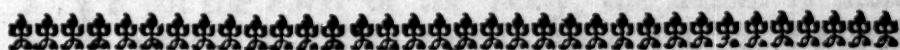
THESE *Effects* may also proceed from indurated *Excrements* in the *RECTUM* ; or from any other *Matter*, which either compresses, obstructs, or erodes the *Intestines* : Hence *Physicians* commonly take notice of *Three* different Sorts of *Cholicks* ; namely, the *Flatulent*, the *Bilous*, and the *Pituitous*.

NOW

Chap.9. Of a LOOSENESS. 85

NOW These are All thus distinguished: The *Wind-Cholick* traverses the Belly, and gives an excruciating wandering Pain in the VISCERA, or Bowels, &c. The *Bilous* induces a certain Pain, with a very sensible Mordacity; and is generally attended with Thirst and a Bitterness in the Mouth: The *Pituitous* gives a most sharp penetrating fixed Pain, resembling (as it were) a driven Stake, or perforating Instrument; attended with a Nausea, Vomiting, and Retention of Excrements, &c. This last Sort *Galen* calls the most cruel CHOLICK.

HOWEVER I take it to be the First of these, which most commonly afflicts the *Conceiv'd Woman*; generated of improper Diet, or proceeding from an irregular Regimen: And This is also sometimes so excessive, that I've seen the PATIENT fall by its Extremity into a *Lipothymia*, or *Swooning-Fit*, which generally presages ABORTION, if not seasonably prevented by proper Discutients, and convenient Diet, &c.



CHAP. IX.

Of a DIARRHEA, or LOOSENESS.

A Looseness, in my Sense, is an immoderate, frequent and sudden going to STOOL: in which the liquid and diluted, as well as sharp and peccant, Excrements are voided, which is commonly preceded by the Belly-ach and Gripes.

IT differs from a LIENTERIA, in that the Excrements are not indigested, unaltered, or Chylous, nor the Stools so quick after Meals: As it also differs from the bloody Hepatick, and Hemorrhoidal Flux, in that no Blood, Matter, or Liquor like that, in which Meat may have been wash'd, is voided with the Excrements.

SOME Loosenesses are call'd Bilous, when so much of the sharp Gall is expell'd as tinges the Excrements Yellow, however

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however mix'd with other *serous Matter*: Others are call'd *serous* and *pituitous*, in which viscous watery *Humours*, less impregnated with *GALL*, are frequently and copiously voided.

THIS *Symptom* may proceed from a great Variety of *Causes*: For an *Error* committed accidentally in *eating* or *drinking*, or any *Irregularity* in the way of *Living* may occasion it.

* *HIPPOCRATES* and many others, justly observe this *Case* to be dangerous; because it not only relaxes and debilitates the *Body* of the *WOMAN*, and *Ligaments* of the *INFANT*; but also necessarily impairs its requisite *Nourishment*, and provokes *Nature* to an *untimely Expulsion* of the tender *Fruit*. Which unhappy *Consequence* ought (by all means) to be prevented, if possible, and the grievous *Affection* to be cured without any *Loss* of *Time*: Now I presume *That* may be done *first*, by gentle *Abstergents* and *Corroborants*; and *Then* afterwards by proper *Restringents* and *Strengtheners*.



CHAP. X.

Of the TOOTH-ACH.

THE *Cause* of this *SYMPTOM*, proceeds from the sharper part of the *Humours*; which, ascending to the *Head*, vitiates the *BLOOD*, and thence occasions a *Defluxion* of *Rheum* upon the *TEETH*: So that *This* vitious *Rheum* fixing itself at some of their *Roots*, affects the *Membranous Parts* so sensibly, that instead of a small *Ach*, it proves a great *Pain*, and almost intolerable *Torment* to the *SUFFERER*.

* 5 Aph. 34. Diemerbroek lib. 1. Anatom. cap. 24. Lang. de Valsalv. Gravid. Disp. 41. Bagliv. Prax. chap. 13. lib. 1.

THIS

Chap. II. Of the HEAD-ACH. 87

THIS ill Affection may also proceed from some *Frigid* or *Calid*, *Serous* or *Salt-Humour*, falling down upon the *Membrane* of the *JAWS*, or *Nerves* of the *TEETH*: Where, if it corrupts and lies putrefying, it commonly engenders *WORMS*.

IN all which *Cases*, I humbly conceive, it may be cur'd by Variety of respective *Means*, according to the different *Quality* of the *CAUSE*, whether *Frigid*, *Calid*, *Serous*, *Saltish*, or *Acrimonious*: Otherways it ceases (of itself) in process of *Time*, by good *Conduct* and keeping warm, &c.

CHAP. XI.

Of the HEAD-ACH.

OF all the *Parts* of the *Body*, the *HEAD* is most expos'd to *Pains*; that is, to a troublesome and grievous *Sensation* of the *Membranous Parts*; proceeding from *Vapours* of the noxious *Humours*; which ascending to the *HEAD*, distend and rend, in a manner, the *Membranes* of the *BRAIN*.

THE *Parts* most commonly affected, are the *Hairy Scalp*, the *Pericranium*, and the *Diploe*; That is, the medullous *Duplicature* of the *CRANIUM*, otherways call'd the *Meditullium*: For these *Parts*, by a continual *Solution*, when it happens so, are always most severely pain'd. But besides, in a *Woman* that has conceiv'd, the *Pains* commonly shift and move from one *Place*, to another, of the *HEAD*; and take certain *Intervals*, longer or shorter, betwixt their *Access* and *Recess*.

BUT as the *Infant* grows, and exhausts a greater *Quantity*, or at last the *whole*, of the *BLOOD*; and as the *Humours* fix in their proper *Place*: So this *SYMPTOM* gradually goes off, and quite ceases.

HOWEVER, in case the *Accesses* be long and violent, they may be discreetly cur'd by repelling and

mitigating *Applications*, or by peculiar *Corroboratives* and *Discutients*, or proper *Alteratives*, according to the *Nature* and *Quality* of the *CAUSE*. I refer what may be farther added on this Head, to *Sect. IX. Chap. 3.*

C H A P. XII.

Of the MEGRIM, or VERTIGO.

THIS Symptom begins with a *Swimming*, *Giddiness*, or *Dizziness* of the *HEAD*, and proceeds (in the conceiv'd *Woman*) from *Vapours* of the *Humours*; which, ascending partly thro' the *Veins* and *Arteries* tending to the *BRAIN*, and partly thro' the *OESOPHAGUS* or *Gullet*, disturb the *Animal Spirits*.

NOW This *Distemper* is *Twofold*, and distinguished by the Words *VERTIGO* and *TENEBRICOSA*; which last the *Arabian Physicians* have call'd *Scotomia*, I suppose from the *Greek Word* *Σκωτῶ*, *Tenebrae*, *Darkness*; and is now generally receiv'd by that Name.

BUT because this sad *Affection* is too common to both *Sexes*, young and old, I shall proceed to a farther *Dilucidation* of it, for the universal Good and Benefit of All.

FIRST then, the **VERTIGO* is a deprav'd *Imagination*, attended with the vitiated *SENSES* of *Hearing* and *Seeing*; proceeding from the violent *Commotion* of the *Animal Spirits*. Secondly, The *SCOTOMIA* is also a deprav'd *Imagination*, accompany'd with loss of *Sight*, and sometimes of the *Motion* of the *Animals* affected with it, because of some *Interruption* in their circular *Passage*. In the *first Case*, the *PATIENT* imagines his *Head* only to be turn'd round, or winded about: In the *other*, he thinks that *circular Motion* to consist in the *external Objects*.

* Galen 4. Aph. 17.

NOW the *VERTIGO* is attended with the vitiated SENSE of *Hearing*, as well as *Seeing*: Because, as something like a *Cloud*, *Smoak*, or *Web*, seems to appear before the *PATIENT's Eyes*; so there is a certain *Whistling*, *Hissing*, or *Tinkling* always in his *Ears*. The *SCOTOMIA*, in like manner, is attended with Loss of *Sight*, and *Motion*; because of some *Disorder* of the *Ventricles* of the *BRAIN* obstructing or impeding the *Transfition* of the *SPIRITS*.

IN the *VERTIGO*, an *Agitation* happens in the *Membranes* of the *VEINS* and *ARTERIES*, as also in the *Membranes* of the *BRAIN*; by which violent *Motion*, the very *Continent Parts* are vehemently shaken and convuls'd, and at length so disquieted, that the *PATIENT* thinks his *HEAD* wheels round about.

IN the *SCOTOMIA*, the *Animal Spirits* having in themselves the *Species* of all Sensibles, and those *Species* being presented to the *Imagination*: As such *Images* of external *Objects* are moved in it, so the *Party* thinks the same real *Objects* to be moved. For, according to *Avicenna*, it is the same thing, whether that which is seen, or that by which we see, is moved: As seeing *Land* from on board a *Ship*, in a smooth *Sea*, being insensible of the *Ship's Way*, we imagine (and sometimes very strongly too) that the *LAND* is in *Motion*.

THAT by which we see, is the visible *Species* reserved in the *Spirit*: Hence when this *Species* is moved, the external *Object* seems also to be moved.

BUT in explaining the *Circular Motion* of the *Animal Spirits*, we must consider it to be twofold; namely, *Natural* and *Preternatural*: The *Natural Motion* is that which begins in the *Carotide Arteries*, thence tending to the *Plexus Choroideus*, or the *anterior Ventricles* of the *BRAIN*; from *These* to the *middle*; from the *middle* to the *Posterior*; and from the *posterior Ventricles* of the *BRAIN*, the *Spirits* are imparted to the *NERVES*. The *Preternatural Motion* is just the *Reverse* of this *Case*.

THE *Causes* of both these *Cases* and *Conditions* are either *immediate* or *mediate*. The *immediate Causes* may be reduced to *Three Classes*; to wit, *Causes* of an inordinate

inordinate Motion of the Animal Spirits, *Causes* of the *Circular Motions*, and *Causes* of lost *Sense*, *Sight*, and *Motion*.

THE *Causes* of the *Spirits* * moving *inordinately*, are either *External* or *Internal*. The *Externals* are the *Sun*, *Hot Baths*, *Frictions*, and *Concussions* of the *HEAD*; or a *Fall*, *Blow*, *Contusion*, and all *inordinate* and *immoderate Motions* of the whole *Body*: such as *Running*, *Leaping*, *Riding*, *Dancing*, too much *Venery*, or hard *Drinking*; as also the *Use* of *Acids*, or acrimonious *Things*, and all *Things* replenishing or stuffing the *HEAD*; such as *Garlick*, *Mustard*, *Anise*, *Parsley*, *Leeks*, *Onions*, *Radish*, *strong Snuffs*, *Drinks*, &c.

THE *internal immediate Causes* are the *Imagination* of the *PATIENT*, *Vapours* of the whole *Body*, *frigid Flatulencies*, and † a sudden *Fluxion* of the *vital Spirits* into the *HEAD*.

THE *mediate Causes* are *Material*; and this *Matter* || (almost all *Physicians* agree) is *frigid*. From hence it is certain, that the *Distemper* proceeds from *Crudities*, and *Victuals* of a crude *Juice*; such as *Pulses*, *Cheese*, *Tarts*, *Fish*, and all other *Sorts* of the like *frigid* and *humid Qualities*: But these are only to be reckon'd *concurring*, not *efficient Causes*.

THE most common *material Cause* is, according to *Galen* **, the *BILE*; which, seeking for *Vent* at the *Mouth* of the *Stomach*, is the *Cause* of these *Symptoms*, and is § properly to be *educed* or *evacuated* by a due *Vomit*.

BUT in Case of *VAPOURS*, *Heat* is always the *efficient Cause*, elevating them from the *peccant Matter*; since a *Cold*, or a *refrigerated Body*, can never engender *VAPOURS* or *Wind* from any *Material Cause*.

* *Galen*. 3. de *Loc. Aff.* c. 8. *Avicen*. l. 3. Tr. 5. cap. 1.

† *Gal*. 3. de *Loc. Aff.* c. 8.

|| *Hipp*. 3. *Aph.* 17, 23, 31.

** *Lib*. 1. de *Loc.* c. 2.

§ *Hipp*. 4. *Aph.* 17. *Zacut. Lusit. Prax. Histor.* l. ult. c. 1. Num. 4.

I shall not now enter upon the particular *Diagnosicks* of this *Distemper*, because they are as *Various*, as the *Causes*, and affected *Places* are different. Let me observe only, that the *simple* VERTIGO is easily known by the *Imagination* of the *Circular Motion* of the *Patient's* HEAD, or That of *external Objects*, or by vitiated *Seeing* and *Hearing*.

BUT the SCOTOMIA differs from the VERTIGO, in that besides the *Imagination* of the *circular Motion*, the PATIENT often loses his *Sight*, staggers, tumbles, or falls to the Ground. And yet the *same* is distinguished from the *Epilepsy*, in that the PATIENT retains his principal *Functions*, and neither *Foams* at Mouth, nor is *Convulsive*.

HOWEVER, as to the *Distinction* of *Causes*, if the *internal Cause* proceeds from *Calidity*, it is known by the *hot Temperament* of the whole Body, as well as by a *Swelling* and *Pulsation* of the ARTERIES about the Throat: Besides that this VERTIGO easily *accedes* and *recedes*, it is always attended with *Calidity* and *Redness* of Face and Eyes; with *Watchings*, *Deliriums*, &c.: And it commonly follows *Fevers*, *Watchings*, *Anger*, the *Use of Calids*, hot Things, &c. In which Cases, it is always to be helped by the *Use of Frigids*, or Coolers.

IF it arises from *frigid Flatulencies*, the *Paroxysms* or Fits are preceded by a *Hissing* or *Tingling* in the EARS; the PATIENT turns *pale* and *wan*, and is taken with an odd extensive *Pain* of the HEAD: And if these *Flatulencies* generate in the HEAD, the Party feels it *ponderous*, *lumpish*, and *heavy*; and is consequently much inclin'd to *Sleep*, *Stupidity*, *Dullness*, and *Inactivity*.

IF the *Distemper* is derived from a *flatulent Stomach*, the PATIENT is troubled with *Rifling* and *Rumbling* of the Belly; with *Sobbing* and *Sighing*, with *Hickups*, *Tawnings*, *Extensions*, *Inflations*, and frequent *Spittings*.

IF it comes from a *Mordacity* of the Mouth of the Stomach, the Party is infested with a *Nausea*, *Loathing* and *Fastidy*; with a *Dejection* of *Appetite*, a lasting or frequent *Thirst*, and a *Bitterness* of the Mouth. But this Affection

Affection also very often proceeds from the WOMB, and that either because of the suppress'd *Menstrua*, or long-retain'd *Seed*; as will hereafter more fully appear in *Sect. ix. Chap. 8.*

AS to the *Prognosticks* of this *Distemper*, it does not always seem *Dangerous*, much less *Lethal*, at first; but its *Consequences* are (however) very *Fatal**, if not timely prevented: For it often turns to *Inflammations*† of the HEAD, or *Convulsions*; sometimes to *Melancholy* or *Madness*; and sometimes to *Epilepsies* or *Apoplexies*.

NOW because this *Affection* observes *Lunar Periods*, and in extreme Cases, is near a-kin to the *Falling-Sickness*; || *Cælius Aurelianus* informs us, That it was call'd by the *Ancients* the *little Epilepsy*: And as it admits of *periodical Accessions* and *Circulations* (I mean coming and going *Fits*) which depend chiefly upon the Power and Influence of the *New* and *Full Moon*; so it is to be treated with respect to *Cure*, in a different manner; one way in the *Access*, another in the *Interval*.

BUT this *Cure* is as different, as the *Causes* and *Degrees* of the *Distemper* are various; wherefore I can, by no means, enter upon it in this place, for *Brevity*-*sake*.

CH A P. XIII.

Of the SYMPTOMS of the middle Three Months.

THE FOETUS having receiv'd a distinct FORM, constituted of various *Organical Members*, and produced of divers *substantial Matters*, takes a various *Situation*; the different *Members* possessing different *Places*, according to the *Institution* of NATURE.

* *Aret. 1. de Caus. Chronicor. c. 3.*

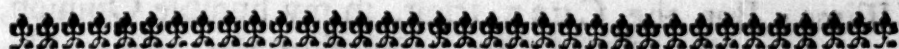
† *Galen. 3. Aph. 17.*

|| *De Morb. Chron. lib. 1. cap. 2.*

Chap. 13. *the middle three Months.* 93

AFTER an absolute and compleat *Conformation* of ORGANS, the rational *Soul* is infus'd and adapted; which is the ultimate Perfection of the *Human FOETUS*: By which it becomes *MAN* and receives *Life*, living and subsisting henceforward by its own vivacious *Faculties*, distinct from those of the *MOTHER*. Now the Great and All-wise CREATOR undoubtedly is the only *Supream*, *Efficient*, and *Immediate Author* and *Finisher* of this noble *Work*; which, according to the nicest *Calculation* of the greatest *Masters of Nature*, is most commonly accomplished about the *Beginning* of these *Middle Months*: At which time, the usual *Turn of Nature* necessarily occasions different *Effects* to the *Child-bearing Woman*; which are call'd *SYMPTOMS* of the *Middle Months*.

AND these *SYMPTOMS*, in short, I reduce to the following *Seven* in Number; viz. 1. *Coughs*; 2. *Palpitations* or *Heart-Beatings*; 3. *Swoonings* or *Syncopes*; 4. *Watchings*; 5. *Pains* in the *Hips* and *Loins*; 6. *Hemorrhages* or *Bleedings*; and, 7. *Fluxes of Blood*. Of which, in their due Order.



C H A P. XIV.

Of COUGHS.

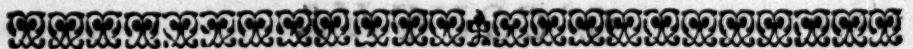
COUGHS are either *Humid* or *Siccid*: They are call'd *Humid*, when the *Humours* contain'd in the *Aspera Arteria*, of whatsoever Nature, are expell'd by its own Force thro' the *Mouth*. And *Siccid*, or dry COUGHS, when, notwithstanding great Pains and Trouble, nothing is *excreted*, only the whole Body fatigued by a continual irritated Endeavour to *Cough* and *Spit-out*; whence arise Pains of the *Head*, *Hypochondriacks*, and other Parts.

THE

THE Cause of which SYMPTOM is Four-fold, and proceeds either from the sharp acid Vapours of the Humours flying towards the Lungs, Wind-pipe, and Jaws; irritating the natural Faculty to Expulsion: Or, from the finer Part of the Blood, converting itself to the pectoral Veins: Or, from the Humours themselves ascending to the Head, and relapsing upon the Breast: Or, in fine, from the suppressed Albedines or WHITES, and whatsoever may vellicate the Aspera Arteria, or in any respect oppress or irritate the same.

THIS Symptom (however slighted or lightly esteem'd) is very Dangerous; forasmuch as it attenuates and weakens the whole Body, enervates or destroys its Strength and Vigour, causes difficult Respiration, excites Head-Aches, hinders natural Rest, occasions Watchings, promotes Defluxions, and finally gives Origin to Fevers, as well as most other Diseases: Besides that, it continually exagitates and distresses the Muscles of the ABDOMEN, or lower Belly; and thereby too commonly provokes Miscarriage.

FOR these Reasons this SYMPTOM ought to be carefully mitigated, if not cur'd, without any loss of Time: But the CURE itself, in my humble Opinion, may be easily effected, by evacuating the peccant Humours, by purging and corroborating the Head, and by the right Use of proper Thoracick Medicines.



CHAP. XV.

Of HEART-BEATINGS and SWOONING-FITS.

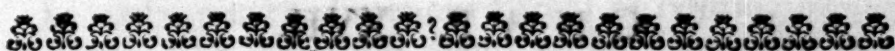
THESE Beatings or Palpitations are nothing else but a sudden Loss of all the Strength, with an immoderate Concussion, by a vehement Diastole, and molestous Systole of the HEART: From hence this SYMPTOM easily turns to a Cardialgia, Lipothymia, or Syncope; which

Chap. 16. Of WATCHINGS. 95

which are *All* of near *Affinity*, in the Case of the *Pregnant Woman*, so that I shall treat of them *conjunctly*; and first observe; that

THE Cause of all such *SYMPTOMS* are but *Two-fold*, and proceed either from a *flatulent Substance* of the *Humours*, ascending, thro' the *Arteries*, or the *Vena Cava*, to the *HEART*: Or from the *Abundance* of *BLOOD*, which (not finding passage by the *WOMB*) seeks to the *superiour Parts*, and thence oppresses the *HEART* and *vital Faculty*.

THIS *Last* is the most dangerous *Condition*, being (in such *Plethorick Women*) the certain *Prognostick* of imminent *ABORTION*: To prevent which unhappy *Accident*, the principal Part of the *CURE*, depends very much on cautious *Vena-Sections*, or letting *Blood*, proper *Diet*, &c: Whereas, in the *First Case*, proper *Discu- tients*, *Cordials*, and *Corroborants*, are the most convenient and successful.



C H A P. XVI.

Of WATCHINGS.

THIS *Symptom* is nothing else, more than an im- moderate *Exercitation* of the *SENSES*, from too great a *Motion* of the *Animal Spirits*: Proceeding from some acrimonious and *siccid Vapours* of the *Humours*, ascending to the *BRAIN*, and there disturbing the *Spirits*, by exciting their vehement *Motion*; which so exag- itates the *SENSES*, that the vigilant restless *Woman* gets either none at all, or but very *short Sleep*.

THIS watchful *Affection* is distinguished by a *sic- cid*, or *calid* and *siccid Intemperature*; attended sometimes with a *Melancholick*, *Bilous*, or *Pituitous*, *Salisb Matter*; which is either essentially lodg'd in the *HEAD*, or com- municated to it from the *Mouth of the Stomach*, or the *Veins* of the whole *Body*.

SOME

96 Of PAINS in the Hips, &c. Sect. III.

SOME have been so overtaken with this SYMPTOM, that they have not only continued Awake for some Days and Nights, but also Weeks and Months: Infomuch that *Hercules Saxon** relates of his own Father, that He, being melancholick, suffer'd such like WATCHINGS, without the least SLEEP, *seven Months long*.

HOWEVER in the *Child-bearing Woman*, the least Degree of such immoderate WATCHING † is dangerous; infomuch that it often occasions *Deliriums*, and *Convulsions*, by the continual Stretch and Tension of the FIBRES.

HOWEVER the CURE of this SYMPTOM may (I hope) be well perform'd both by *external* and *internal Means*; externally, by proper *Lotions*, *Inunctions*, and *Frictions*; internally, by proper *Soporiferous Medicines* adapted to the Quality of the Intemperature.



C H A P. XVII.

Of PAINS in the Hips, Loins, &c.

ALTHOUGH these PAINS (in general Terms) are the Effects of the Compression of the extended WOMB, hanging on, and bearing too much upon the neighbouring Parts, by its Gravity and Weight: Yet the particular Cause of such SYMPTOMS (in my Opinion) is *Two-fold*; and proceeds either from the Abundance of BLOOD lodging in the Veins of those Parts; or from the growing FOETUS, so extending the Ligaments of the WOMB, as to oblige the neighbouring Parts to sympathize. From hence the broad Ligaments cause the PAINS of the Back and Loins, answering to the

* Praele&. Pract. Par. I. cap. 11.

† Hipp. 2. Aph. 3, 7. Aph. 18. Bellini de Morb. Capit. pag. 535.

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Reins, to which *Parts* they are strongly fixed ; as the *round Ones* affect the *Groins*, *Hips*, and *Thighs*, where they terminate. Which *Ligaments* are sometimes so violently extended, especially in the first Time of *Pregnancy*, that (by the Concurrence of any slight *procatartick Cause*) they have been often known to break.

THE *Cure* of these *SYMPTOMS*, in the first Case above-mentioned, depends chiefly upon cautious *Phlebotomy*, and good *Repose* in Bed ; and in the *Second*, upon proper *Swathes*, *Unguent*s, &c.



C H A P. XVIII.

Of HÆMORRHAGIES, or BLEEDINGS.

THESE *Symptoms* are to be understood to happen only from the superiour *Parts* ; as *Nostrils*, *Mouth*, or *Ears* : And the *Cause* seems to be *Three-fold* : proceeding either from a more than ordinary *Plemy* of *BLOOD* ; or from a gross *Mixture* of *Humours* and *BLOOD*, prompting *Nature* to *Excretion* ; or, lastly, from a *Debility* and *Weakness* of the *INFANT*, when not able to attract the due *Quantity* of *BLOOD* to its *Subsistence*.

IN the first Case, the *Woman* usually looks *sanguine* and well-colour'd, and hath more *Plethorick Marks* upon her ; which, if it happens, without any great *Inconvenience*, as it is without *Danger*, the *Woman* may easily bear and dispense with it.

IN the second Case, the *BLOOD* so lost falls dropping away, and with *Pain* ; it is ugly and ill-colour'd, of an *acid Quality*, and *stinking Smell* : And the *PATIENT* hath more *Cacochymick Signs* upon her, whereby she is threatened with *Abortion* and imminent *Danger*.

IN the third Case, the *SIGNS* of a *Debilitated Fœtus*, and instant *Abortion*, are evidently presented ; as mention'd in Chap. 29, and 30, of this *Section* : When, if she chance to escape *Miscarriage*, (which most common-

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ly happens in this *Condition*, if not timely and artfully prevented) a difficult and laborious BIRTH is the certain *Consequence*; and sometimes a protracted Time of BEARING to the *Close* of the 10th, or (as I have observ'd) to the *Beginning* of the 11th Month.

THIS *Symptom* is to be judg'd of, and cur'd according to the above-mention'd, and what other con-comitating *Diagnostick Signs* appear.

C H A P. XIX.

Of FLUXES of BLOOD.

THIS *Symptom* is to be understood to happen from the *inferiour Parts*; namely, by way of the *Hæmorrhoidal Veins*, or by the *Passage* of the WOMB, but most commonly by the *Last*.

THE *Cause* then of this SYMPTOM, happening by the *Hæmorrhoids*, is *Three-fold*; and proceeds, either from too great a *Quantity* of BLOOD abounding; or from the disorder'd and deprav'd *Quality* of that BLOOD; or from *Both* these *Indispositions* jointly: And this sanguine *Affection* is commonly without any great Danger (tho' not without some Trouble) to the *Woman*; ceasing gradually (of itself) after a safe and successful DELIVERY.

THIS *Symptom* from the WOMB, happens *Four* different Ways; to wit, either by the *Vessels*, which run to the Neck of the WOMB; or by *Those*, which tend to the *Body* and *Cavity* of the SAME; or by *Those*, that adhere to the *Membrane* call'd CHORION, and to the *Infant*, by which it attracts its *Nutriments*; or by *Those*, that *Nature* hath reserv'd for a *Superfætation*, or the *Necessity* of expurging this BLOOD when it chanches to be Superfluous.

WHATEVER way this Flux happens, its *Cause* is *Three-fold*; and proceeds, either from an *Aperition* of some

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some of the mentioned *Uterine Vessels*; or from their *Dilatation*; or from a *Rupture* of those Vessels.

THEY are open'd by a *Redundancy* or *Superfluity* of *BLOOD*; which *Wise Nature* takes this *Method* of *fiercing* and *throwing-off*, the *Natural Evacuation* being stopped. They are *dilated* by the *Acrimony* of the *Humours*, or by their own *rarefy'd* and thin *Contexture*. And, in fine, they may be *bursten* or *broken*, by a great *Variety* of *Accidents*; such as *Running*, *Leaping*, *Falling*; *Striking*, *Lifting* a heavy *Weight*, violent *Motion*, *Coughs*, great *Pains*, *Vapours*, *Costiveness*, *Looseness*, immoderate *Heat*, or *Cold*; as also by any violent *Perturbation* of *Mind*.

THE *First Case* (being the *Work* of *Nature*) happens with great *Ease*, and without any *Pain* or *Trouble*; it *flows* moderately and regularly, is of *short Continuance*, and not attended with any immediate *Danger*, so long as the *Woman* enjoys her *Health*, and continues well-colour'd in *Complexion*.

THE *Second Case* is called an *ANASTOMOSIS*; and what happens by such irregular *Dilatations*, falls *Drop by Drop* away; and is *All Acid*, *Ill-colour'd*, *Stinking*, *Thin*, *Pale*, *Serous Stuff*.

THE *Third Case* is known by an immoderate and irregular *Flooding*, as it were in *Heaps*; attended with *PAINS* of the *Groins*, *Loins*, &c: And at last aggravated with *Faintings* and *Convulsions*. The true *STATE* of which *Case* is particularly noted in *SECT. V. Chap. 7*. Only give me leave to add here, that the *Procatartick Cause*, is always sufficiently known, from the *Relation* of the *PATIENT*.

BUT however, it is also proper to know in all the above-mention'd *Cases*, from what *Place*, and by what *Vessels* this *Flux* happens: Which may be rightly thus distinguished; for if from the *Neck* of the *WOMB*, it flows orderly and moderately; as it likewise does, if it comes from *Vessels* no ways adhering to the *INFANT*: but if it arises from the *Bottom* of the *WOMB*, it flows in less *Order*, and greater *Quantity*; and if it

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happens, in fine, from the *Vessels* fixed to the *INFANT*, and the *CHORION*, then it does flow most irregularly of all, and in very great *Quantities*.

THE *Prognosticks* of this *SYMPTOM* are, either a † weak debilitated *INFANT*, or an approaching *Abortion*: But besides also, it sometimes portends a *hard, laborious, and protracted BIRTH*, perhaps even to the *11th Month*.

WHICH *Prognosticks* are indeed founded upon sufficient relative *Reasons*: The *First*, because the *INFANT* is not able to convert the *whole* of the *superabundant BLOOD*, to its *Aliment*: The *Second*, because the *INFANT* (tho' perhaps Strong and Able enough) is depriv'd of its requisite *Sustenance*: The *Third*, because (according to *Hippocrates*, &c.) a *sickly Gestation* always indicates a difficult and laborious *BIRTH*: And besides the reason of a *protracted Birth* (beyond the *ordinary Time*) is very plain and perspicuous; because, if a *strong healthy CHILD* requires *two Months*, to recover itself after the first *On-set* or *Attempt* of the *7th Month*, (as is more amply explain'd in *Chap. 34.* of this *Section*) it is but highly reasonable to think, that a *weak sickly One*, requires a *longer Time* of *Gestation*.

THE *first Case* of this *SYMPTOM*, seems to be the most favourable of the *Three*; yet I would advise such *Sanguine* or *Plethorick Women*, to guard against *one ill Consequence*, which I have known sometimes to happen in the same burthensome *Condition*: Namely, that from too great a *Plenty* or *Superfluity* of *BLOOD*, it sometimes runs through the *interiour Veins* into the *Cavity* of the *WOMB*, which renders the *Case* by far the most dangerous; because this *BLOOD* * (being out of its proper *Canal* or *Center*) irregularly extravas'd, immediately *corrupts* and *suppurates*; which *corrupted BLOOD*, in *Concert* with the *INFANT*, (whose *Aliment* is thereby impair'd) always obliges the *WOMB*, to dilate and yield

† Hipp. 5. Aph. 60. Brassavol. in hunc Aphor.

* Hipp. 6. Aph. 20. Cels. l. 2. c. 8. p. 70.

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up its *Contents* : So that, in short, this particular *SYMPTOM*† is, in all its different Cases or Conditions, the most Pernicious and Dangerous.

WHEREFORE it is, that the respective CURES of these sundry Cases, belong only to the Ablest Physician, and That (most properly) to Him who professes and practises MIDWIFERY : Because, when Medicinal Helps fail, and cannot prevent Misfortunes, He will at least know best then, how to Compose, and Mitigate them, by delivering the Woman, if Necessity so require.



CHAP. XX.

Of the SYMPTOMS of the last three Months.

TWO third Parts of the common Duration and Conjunction of CHILD-BEARING, being, by this time faithfully, if not so fully, accounted for ; it remains now, that we also more particularly consider the MOTHER and her INFANT throughout the last Three Months-Travail. These are the Finishing Maturing Months of the INFANT : I mean peculiarly, as to its Strength and Vigour ; since in other respects, the Middle Months have duly perfected the Ornaments of the particular Members, and gracefully compleated the SHAPE and FORM of the whole Body.

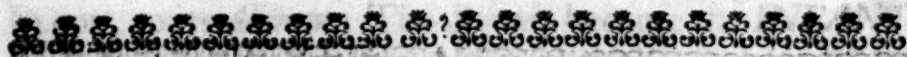
WHEREFORE, as, in these latter Months, the CHILD encreases in Bulk, Vigour, and Activity, it then affords the tender MOTHER incredible Uneasinesses, and grows sometimes almost Obstreperous. Which Augmentation of the Fœtus (of natural Consequence) occa-

† Hipp. 5. Aph. 60. Bravvol. in hunc Aphor.

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sions in her Constitution of Body various different Effects; call'd *SYMPTOMS* of the last *Three Months*.

NOW these *SYMPTOMS*, I hope I may pertinently reduce to the following *Nine*, in Number; namely, 1. *Dysuries*; 2. *Ischuries*; 3. *Stranguries*; 4. *Costiveness*; 5. *Tenesms*; 6. *Varices*; 7. *Inflations* of the *Legs*; 8. *Fissures* of the *Belly*; and 9. and lastly, *Water-Fluxes*. Of which I shall take leave to treat separately, in their proper Order.



CHAP. XXI.

Of DYSURIES, ISCHURIES, and STRANGURIES.

THE *Dysuria* is a painful and difficult *Excretion* of *Urine*; as the *Ischuria* is an entire *Suppression* of the *SAME*: And the *Stranguria* nothing but an *Effect* of the other *Two*; being an *Excretion* made Drop by Drop, with a continual *Stimulation* or *Propensity* to make *Water*, however without any acute *Pain*, tho' not without some *Uneasiness*.

NOW these three *SYMPTOMS* have all their respective *Causes*, which I shall not particularly enter upon here at large; but only, take notice by the By, that in the *Pregnant Woman*, they most commonly proceed from *One* and the same *Original*: Wherefore I shall in this Place discourse of them conjunctly; and observe that all three *SYMPTOMS* may proceed from the ponderous *Womb*, lying upon, and depressing the *Neck* of the *Bladder*; and that the more heavily, the nearer the *Woman* is to her *Time*. The pungent *Acrimony* of the *URINE* sometimes also occasions *Incontinence*, or want of *Retention*; as its *Inflammatory Heat* causeth almost a total *Suppression*. However, in short, such *SYMPTOMS* may like-

likewise proceed from some *crude* and *unconcocted* Matter, obstructing and oppressing the *Sphincter-Muscles*.

BE *That* as it will, in the present *Case*, the *CURE* is but very seldom of great *Difficulty*; being frequently effected, by lifting up the *Bottom* of her *Belly* with both *Hands* when she is about to *make Water*: Or, by wearing a convenient large *SWATHE*. But if *Need* require, the *Region* of the *BLADDER* may be cherished with proper *emollient Fomentations*, *Injections*, or *Cataplasms*; as (upon any *Extremity* at last) a *CATHETER* may be prudently used.

IF the *SYMPTOM* however proceeds from any *Inflammatory*, or *Acrimonious Quality* of the *URINE*; it may be sufficiently helped by a proper, regular, cooling *Diet*: As, if it arises from any *undigested, crude Matter*; it may be assisted or reliev'd by a good *Draught* † of warm generous *WINE*; which not only helps *Concoction*, but also facilitates and promotes *URINE*: But in case of absolute *Necessity*, after all, gentle *PHLEBOTOMY* ought to be carefully used.

C H A P. XXII.

Of COSTIVENESS.

THE *Belly* discharges it self sometimes more seldom or infrequently; sometimes with more *Pain* and *Difficulty*; and sometimes in less *Quantity* than is convenient for *Nature*.

THERE have been many *Instances* given of this *Disorder*, by * *Learned Men*, where some *PATIENTS* have gone to *Stool* but once in *Eight*, once in *Fourteen*, and once in *Twenty* or more *Days*.

† Hipp. 7. Aph. 48. Heurnius in hunc Aphor.

* Alex. Bened. lib. 19. de curandi Morb. rat. cap. 36. Fernel. lib. 6. de part. Morb. & Sympt. cap. 10. &c.

YEA, * *Dominicus Panarolus* relates of a certain Friend of his, whose *Belly* was so exsiccated, that he sometimes liv'd three *Months* without going to *Stool*.

BUT what I mean by *Costiveness*, is not that *Dis-temper*, where there is a total *Suppression*, for that rather belongs to the *Iliack Passion*; but that only, where the *Excrements* lodging longer than their due natural *Time*, perhaps three or four *Days* more or less, are at last voided hard and dry with some small *Straining*.

Which irregular *Accident* may proceed from many different *Causes*. Although in the *pregnant Woman*, I take the following to be the most *Common*: That is to say, the *Calidity* and *Siccidity* of the *LIVER*, or *SPLEEN*; occasion'd by the *Lusty Child's* attracting too much of the *Radical* and *Succid Moisture* of the *MOTHER*, and compressing the *Intestines*.

THIS *Symptom* proves often of dangerous *Consequence*: For by the pressing *Force*, commonly us'd in such a *Case* to ease the *BELLY*, some *Vessels* or *Ligaments* may be easily and readily *broken*. And not only so, but the retain'd *Feces* always affect the *HEAD*, and contaminate the *BLOOD* with noxious *Vapours*; and thereby impede or hinder the *Concoction* of the *Ventricle*, and the *Separation* of the better and purer, from the grosser and impurer part of the *Chyle*: Whence proceed many other various *Disorders* to the whole *Body*, from the long *Retention* of the *Excrements*.

THE *Cure* consists in temperating the *Calidity* of the *VISCERA*, and relaxing the *BELLY* by proper *Diet*, *Dissolvents*, &c. And in *Case* of any sudden *VOMITING*, which sometimes happens upon *Costiveness*, humectant and emollient *Chylsters* may be most properly and cautiously used, to restrain and prevent all such *Revulsions*.

† *Observ 1. Pentecost. 1.*



C H A P. XXIII.

Of TENESMS.

ATENESMUS is an irregular *Retention* of *NATURE*, and nothing else but a continual *Desire* or *Inclination* of going to *STOOL*; attended with *Pain*, without voiding any thing but *Slime*, or an indigested *MUCOSITY*: And this is in the *ANUS*, what a *Strangury* is in the *BLADDER*; being *Both* a violent *Contraction* of the *FIBRES*, or *Disorder* of the *SPHINCTER-MUSCLES*.

WHICH tenacious *Symptom* proceeds from a great Variety of *Causes*, occasionally provoking the *expulsive Faculty* of the *strait Gut*, call'd the *RECTUM*, without a *Power* to expel; such as may happen to be an unusual *Exulceration*, or *Constriction* of, or an *Acid-Salt-Humour* in the same *INTESTINE*: So likewise a *Stone* in the *Neck* of the *BLADDER*, a *Tumour* of the adjacent *Parts*, or seminal *Vessels*, a frigid *Intemperature*, the *Hemorrhoides*, a *Dysenteria*, *Dysuria*, *Ischuria* or *Stranguria*, &c. may very shrewdly occasion the *TENESMUS*.

WHICH binding *SYMPTOM* is of the same dangerous *Nature* and * *Consequence* with the preceding *Case*; both having an equal *Effect* of *Power*, if not prevented, to expel and dislodge the *INFANT*. Which *Notion* cannot be otherways better maintain'd; for the *WOMB* being situated upon the *Intestinum Rectum*, must suffer great *Commotions* by continual *Needings* and *Strainings* in both *Cases*.

BUT the safest *CURE*, in short, in my humble Opinion, is to be perform'd by proper *Decoctions*, *Fomentations*, and absterging *Clysters*.

* Hipp. 7. Aph. 27.

C H A P. XXIV.

Of the VARICES, or Vein-Tumours.

THIS Symptom is nothing else, than a *Distention* or *Dilatation* of the *HIP*, *THIGH*, and *LEG-VEINS*: Which however chiefly appears about the *HAM*; and it happens most commonly to *Plethorick Women*, who walk much, or exercise themselves more freely upon any *Occasion*.

THE Cause proceeds only from a *Plenty*, or *Superfluity* of the suppressed *BLOOD*, more than the *Infant* can consume: which being carry'd by the *Arteries* to the *lower Parts*, is thence receiv'd by the *Cruial* and *Saphene* or *Ankle-Veins*. Inſomuch that the *WOMB*, being (by this time) both *Ponderous* and *Bulky*, ſo preſſeth the *ILIAC-VEINS*, that it hinders the *BLOOD* in its *Course*, and obſtructs its free *Motion* and *Circulation*; whereby (of conſequence) theſe *inferiour Veins* muſt ſwell and diſtend themſelves proportionably.

HOWEVER, the *Danger* of the *SYMPTOM* is not great; becauſe after a ſafe *BIRTH*, when the ſuper-abounding *BLOOD* and *Humours* are evacuated, theſe *præternatural Tumours* ſettle, and the *VEINS* return to their *Priſtine State*.

WHEREFORE the only neceſſary *Relief* of this *Malady*, conſiſts chiefly in the *Woman's* abſtaining from too much *Walking*, and all other extravagant *Exerciſes*; upon indulging her *inferiour Limbs*, by keeping them rais'd upon a *Couch* or *Stool*, that the *BLOOD* may not ſettle too much to theſe *lower Parts*: Or (which is far better) let her prudently keep her *Bed*; in which *Poſture*, the *BLOOD* can meet with no ſuch *Difficulty* in returning by theſe *Veins* to the *HEART*, as it will find when it muſt aſcend by the *Woman's SITTING* or *STANDING* upright; ſo that conſequentially it muſt needs circulate the more readily and with more *Eaſe*.

Hence

Chap. 25. Of INFLATIONS, &c. 107

Hence in short, it is, that from this more Free and Easy CIRCULATION in *Bed*, such *Women* are always more easy, or better dispos'd, and far less pain'd or troubled in the *Mornings*, than at *Nights*, in This Condition.

BUT if, after All, the *PATIENT's* Convenience will not permit such *Indulgences*, Then a proper *Swathe* of three or four *Fingers Breadth*, is most adviseable; beginning to swathe this *Varicose*, or *Swelling Part*, from the *Bottom upwards*, as far as the *Varices* or *Tumours* extend. But in Case of more *Plethorick Marks*, at last, in the *other Parts* of the *Body*, *Phlebotomy* may be most safely made Use of.

C H A P. XXV.

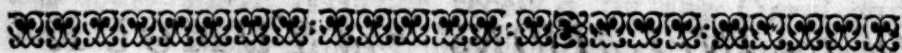
Of the INFLATIONS and TUMOURS of the LEGS.

THESE bloating *Symptoms* not only happen to some *Women* before, but also after *BIRTH*; especially when the *LOCHIA*, or *Child-bed Cleansings*, do not flow in a regular *Measure* or sufficient *Quantity*.

THE Cause of the present disorder'd Case, proceeds either from the Suppression of some *Aqueous Flux* of the *WOMB*; or from some such watery serous *BLOOD* descending to the *LEGS*; or from the Abundance of retain'd *Menstruous BLOOD*, more than the *INFANT* can dispense with: which, being of no Service either to *MOTHER* or *CHILD*, settles downwards to these aggriev'd *Parts*. But these Things are to be considered with this Distinction and Difference, that if the *LIVER* be debilitated, and the *BLOOD* becom's *Pituitous*, or *Aqueous*, the *Woman's LEGS* are so *Oedematous* or *Tumid*, that when pressed with the *Finger*, it leaves the Impression of a *Dent* and *Hollowness*: But if the *BLOOD* grows corrupted and *bilous*, her *LEGS* are inflam'd, and sometimes occasionally exulcerated, as in *Scorbutick Cases*: And if none of These happen, then a gross thick *BLOOD* only abounds, tending vitiously down-

downwards. Upon which there are only some *Livid* or *Blueish Marks* * to be discover'd with those *Tumours*, such as the *VARICES* or *Swellings* occasion in the preceeding *Case*.

IN fine, the *Woman* troubled with these *Symptoms*, commonly bears a *Female*; as all *Women*, having sickly times of *GESTATION*, generally do. However yet, tho' this swelling *Affection* is very troublesome, its *Danger* is not great; because it ordinarily ceases of it self with good *Care* after the *BIRTH*. Wherefore in this Condition a *CURE* is not always to be attempted, lest the *Humours* recoiling upwards, affect some *nobler Part*. Nevertheless, if the *SWELLING* be too considerably Painful or Troublesome, proper *Digerents* and *Discuti-ents* may be apply'd, and the *LEGS* fomented with a convenient *Lixivy*, *Decoction*, or *Cataplasm*.



C H A P. XXVI.

Of FISSURES or CHOPS of the BELLY.

THIS *Symptom* only happens to *Women* bearing their *first* or *second CHILD*; whose lower *BEL-LIES* have not yet been sufficiently extended by frequent *CONCEPTION*.

THE *Cause* proceeds only from the natural *Leni-tude* and *Constriction* of the *Skin* of the *ABDOMEN* or lower *Belly*; which (in proportion to the *Growth* of the *INFANT*) must dilate and distend itself: So far as that towards the *latter Months*, it gives way to such a large degree, that it appears not otherways than as if the *SKIN* was to be divided, and almost crack or break by its thin *Attenuation*.

HOWEVER it occasions also very often great *Pain*, as well as a permanent wrinkled *DEFORMITY*

* Aet. lib. 16. cap. 12.

Chap. 27. Of WATER-FLUXES. 109

of that *Part*. Wherefore *Laxative Liniments*, and proper *Unguent*s, are pertinently to be made use of by way of *Precaution*, from the *fourth Month*, until the Time of *Delivery*.

C H A P. XXVII.

Of WATER-FLUXES.

THE *Water* which is gather'd in the Time of *GESTATION*, between the *Membranes* involving the *INFANT*, is at last upon the approaching *BIRTH* effus'd: For the *CHILD* having broke the *AMNION*, feels these *WATERS* troublesome, and consequently obliges the *CHORION* also to give way. From whence proceeds naturally a *copious Effusion* of the same *WATERS*.

BUT of this natural *Flooding*, I am not properly to treat in this Place; only of that preposterous *Flux*, which happens before the due time of *BIRTH*, the *immediate Cause* of which proceeds from some *Procatartick Accident*: Such as a *Perturbation of Mind*, an unlucky *Fall*, a *Leap*, a *Stroke*, or any other *Violence*.

THIS *Symptom* happens *Two ways*, either by a *Disruption*, or *Dilatation* of the *MEMBRANES*: the *first* by *external*, the other commonly by *internal Causes*. In the *first Case*, the *Flux* comes suddenly, irregularly, and in a great *Quantity*; in the *second*, by little and little, or by degrees, and less in *Quantity*.

THE *first Case* is most dangerous, being the infallible *PROGNOSTICK* of instant *Abortion*, if not timely and judiciously prevented. The *second Case* is of the following bad *Consequence*, that this *WATER*, which has hitherto defended the *INFANT* from the *Rigidity* of the circumjacent *Parts*, being at last (how leisurely soever) exhausted and spent; the *CHILD* is soon sensible of its *Loss*, and finding its wonted *SEAT* become uneasy, it thereupon being restless or discontented, endeavours to
move

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move and seek for a *Better* : By which means (if *Abortion* does not presently ensue) it falls into a *preternatural Situation*, which (of course) occasions a *preternatural BIRTH*. But abstracting from *This*, the bare *Deficiency* of the *WATERS*, for moistening the *Passages* in time of *LABOUR*, is enough to effect the same *Unhappiness*.

H O W E V E R, the *Cure* of this *SYMPTOM* depends chiefly upon a good *Regimen* of *DIET*, and *external*, as well as *internal Corroboratives*.

I N short, having thus discuss'd the several *SYMPTOMS* of the *Nine Months*, and such as are most common and familiar to the *Woman* during her *FOETURA*, or the whole *Time* of her *CHILD-BEARING* ; I shall proceed now in the next *Place* with all due *Method* and peculiar *Regard* for her *Goon*.



C H A P. XXVIII.

Of Acute DISEASES incident to the CHILD-BEARING WOMAN.

I T sometimes, and more than too often, happens, that besides the common *SYMPTOMS* of the *Months*, the *conceiv'd Woman* is also suddenly taken with some *acute DISEASE* or other ; upon which I shall offer my *sincere Opinion*, and according to the best of my *Judgment*, give a brief *Account* of *Those* several *Maladies*, with their *Definition* and *Cause*, *Nature* and *Quality*, *Danger* and *CURE*.

F I R S T then, the great *Galen* defines *acute DISEASES* to be such, whose *Motion* is *swift*, attended with sudden and immediate *Danger*.

T H E learned *Brassavola* calls such *DISEASES* *Acute*, as come *suddenly*, continue a *short Time*, and have very severe or violent *SYMPTOMS*.

T H E ingenious *Blancard* calls those *DISEASES* *Acute*, which are over in a *little Time*, but not without
imminent

Chap. 28. Of ACUTE DISEASES. III

imminent Danger. Now *Those* are deem'd either *very Acute*, or *most Acute*; the latter is meant when the *Distemper* is over the 4th Day; but the former is that which continues till the 7th Day: For the more *acute* the *DISEASE* is, the sooner follows its *Determination*, either for Life or Death. Again, a Disease is call'd *simply acute*, when it lasts 14 or 21 Days; or lastly, it is term'd *Acute ex decedentiâ*, which lasts 42 Days at least.

A N D according to the diligent Dr. Sydenham*, the *Despumation* of *Acute DISEASES* happens in 336 Hours; which he also justly applies to *intermitting FEVERS*, reckoning 5 Hours and a half for a *Paroxysm*: Because what we call *DAYS* in *Acute Fevers*, are so many *PERIODS* in *intermitting Fevers*: The only difference of *Those* consisting in that the one perfects its *Fermentation* at once, which the other accomplishes at reiterated *Times*, and divers *Turns*, by the same Duct of *Nature*. He farther still, observes that *Autumnal Quartan Fevers* continue six Months; in which Time, if the Number of the recurrent *Paroxysms* be summed up, they will exactly amount to the aforesaid 336 Hours, or 14 Days, which is the *Term* or *End* of the regular and *continual Fevers* of that Season.

A N D the wise HIPPOCRATES observes† that as an exquisite *continual Fever* ceases within the 7th Day, so an exquisite *Tertian* has seven *periodical Circuits*; because every *Access* in the latter, makes up a *Day* in the former Case. Hence it is manifest that all *Epidemick Diseases* have their due and regular *Times* || of encreasing, continuing, and decreasing; and that *These Laws of Nature* are so constant and permanent, that however *Fevers* differ in other Circumstances, they are equal as to the *Duration of Time*; counting according to the

* Observ. cap. 5. de intermittente Feb.

† Sect. 4. Aph. 59.

|| Galen. de Crisib. lib. 2. cap. 6. & in Comment. in 4 Aph. 59.

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Periods or Fits of the *intermitting*, and the continued *Number of Days* of the never *intermitting Fever*.

GALEN* further explains *Acute DISEASES*, and calls them *Twofold*: The one attended with a continual *FEVER*; such as are *burning Fevers*, *Frenzies*, *Lethargies*, *Pleurisies*, *Squincies*, *Inflammations*, &c. The other without any *Fever*, such as *Epilepsies*, *Apoplexies*, *Convulsions*, *Palsies*, *Contraction of LIMBS, JOINTS*, &c. Now the † *Accesses* and *Crises* of all *These* proceed from the *Influence* of the *MOON*; which in over-ruling terrestrial Things, surpasses all the other *PLANETS* and *STARS*, not so much because of her *Power*, as by her *Approximation* or *Vicinity*.

THE Cause of both the one and the other seems to be the same; tho' it affecteth differently, according to the various *Regimen* and *Disposition* of the Woman: And it most probably proceeds either from the *vitious Humours*, which have abounded in the Body before *Conception*; or from such *Humours* as have been congested afterwards by the *suppressed MENSES*, or *Months*: Which being irritated by improper or depraved *Food*, by bad or negligent *Regimen*, either before or after *Conception*; those *Humours* (like *Yeast* in *Ale*) ferment the *BLOOD*, to such a Degree, that (all on a sudden) the *PATIENT* is violently taken with one or other of those *Acute DISEASES*, which are determined by a certain *Lunary CRISIS*; that is to say, by a certain *Motion* of *NATURE*, accelerated by the *Power* of the *MOON*, to a gradual *Expulsion* of the *peccant Matter* thro' the *PORES* of the Body. But this *CRISIS*, in short, happens always with most *Ease* and *Safety* upon the *New* or *Full-Moon*, because the ambient *Air* does not at that time so much affect the *Superficies* of the Body, nor so violently repress the *Motion* of the *FLUIDS*.

HOWEVER, this melancholy *Accident* can never happen worse than to the *Conceiv'd Woman*; and the

* In Comment. in Aph. Hipp. 23. lib. 2.

† De diebus decretor. lib. 3.

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farther she is gone in her Time, the more *Danger* still. And that because of the *Scarcity* or *Want* of pure BLOOD, which ought to be imbibed by the *Infant*, either in part or in whole, according to its Age and Strength: Or, because of the *Plenty* of *vitious* BLOOD, which tends to no other end, than to *imbecillitate* the Woman, and render her *incapable* of suffering the *Insults* of such *acute DISEASES*. For *Nature* may (perhaps) be able to bear up against *one simple Effect*, but when it is joined and aggravated by *another*, the *PATIENT* is too often obliged to *succumb*, and yield herself up to be *overpower'd* in the Struggle of Life.

BUT, after all yet, *acute DISEASES* are not always *mortal* to the *Conceived Woman*; for, as Experience teaches, *SOME* have the good Fortune to *escape*, tho' indeed the Odds * are very great on the other Side. But of such sharp *MALADIES*, *those* without any *Fever* are reckoned most *dangerous*; because they are not only *Acute*, but also most *Acute*: And by *those* the *MOTHER* is more immediately endangered than the *INFANT*; whereas by *those* which come with a *Fever*, the tender *INFANT* is first and chiefly endangered, because of the *MOTHER's* internal *Calidity* and *Depravation*, which easily affects, and soon suffocates or stifles it in a short time.

HOWEVER, it is very observable, that a *Woman* †, bearing a *FEMALE*, is more readily seized, and more easily freed or cured of *acute DISEASES*, than *she* who bears a *MALE*: And that because *FEMALES* are naturally more obnoxious to *Distempers*, proceeding from the *Retention* of the *MENSTRUUA*, and consequently more *favourably affected*, because of the *natural Affinity* and *Familiarity* of the Case.

AND this is the Reason that *FEMALES*, after the *first Months*, do bear and sustain more *Pains* than the

* Valleriol. lib. 1. Observ. 1. & lib. 6. Observ. 6. Hipp. 5. Aph. 30. Forest. lib. 2. Observ. 27. & lib. 6. Observ. 6. Hollerius in hunc Aphor. &c.

† Rod. à Cast. de Morb. Mul. lib. 3. cap. 21.

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MALES; as daily Experience confirms, in that a *Female Miscarriage* || seldom happens after the *first Months*: whereas the *Male Abortion* is most of all to be feared, after the *TIME* of *Motion* or *Animation*, because the *ACETABULA*, or *Cavities*, being then more *siccid*, are the more easily broken by its *stronger Motion*.

IN Cases of *Acute DISEASES*, the worst is, that the necessary *Helps*, which such incident *Distempers* otherways absolutely require, are not always safe and convenient for the *Child-bearing Woman*: which *Condition*, (with respect to the *CURE*) renders the *CASE* one of the *nicest Points* in the *ART* of *Physick*. Wherefore I would, with Submission, advise, that *none* but the ablest and well-qualified *Physician* should undertake either the *Care* or the *CURE* of such a *PATIENT*. To whom I am not to prescribe *Rules*, and therefore I shall only refer him to his own more *Acute Judgment*, and the *Curious Solutions* of (that most learned *PHYSICIAN*) *Daniel Senertus* *, upon the *six following Questions*, thus stated by himself, viz.

I. HOW far slender Diet is convenient for the *Child-bearing Woman*, labouring under an acute Disease?

II. HOW far it is convenient to open a Vein or bleed this Woman upon such an Occasion?

III. HOW far it may be proper to purge her on the same Occasion?

IV. WHETHER *Vena-Sections* or *Purges* are most dangerous in such a Case?

V. WHETHER it is practicable (in such a dangerous Case) to excite *Abortion*, for the *Woman's Health* and *Recovery*?

VI. HOW far *Clysters*, *Diureticks*, and *Diaphoreticks* are convenient on such Occasions?

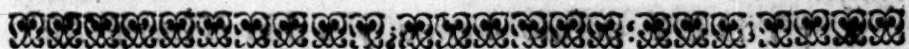
HAVING, thus, now, in fine, briefly hinted upon the *sundry HEADS* of this Chapter, I shall, in the next Place, offer a few Words upon *THAT*, which (I think)

* Ibidem.

† Lib. 4. Praët. Med. de Mul. Morb. Part 2. Sect. 5. cap. 3.

Chap. 29. Of FLUXES of BLOOD. 115

is the most common Consequence of the foregoing EFFECTS, viz.



C H A P. XXIX.

Of the DEBILITY and WEAKNESS of the Fœtus.

BESIDES all the enumerated SYMPTOMS, *Acute* and *Chronical Distempers*, to which the *Child-bearing Woman* is subject; it also happens over and above (too frequently) that the *INFANT* becomes *Weak* and *Sick* in the *WOMB*.

THE Cause of which unhappy *Accident* I take to be fourfold: As it proceeds, either from a *Debility* and *Insufficiency* of the *Parental SEED*, or from a *Scarcity* or *Want* of requisite *Sustenance*, or from a certain *Depravation* of that *Sustenance*, or from some immediate *Procatartick Cause* of the *MOTHER*; which may all be thus rationally distinguished, and severally accounted for; viz.

THE Cause certainly lies in the *SEED*, if the *Woman* has continued always *healthy*, eating, drinking, and living regularly.

IT may be imputed to the *Scarcity* of *ALIMENT*, if she has often laboured under *Diseases*, or been exposed to *Hunger*, *Want*, *Penury*, or any such like manifest retrenching CAUSE.

IT may be adjudged to a *Depravity* of *ALIMENT*, when the *Woman* (by a vitiated Constitution of Body) is subject to some certain *Distempers*; and, besides, in short, any *Procatartick Cause* is discoverable from the *Relation* of the *PATIENT*.

BUT whatever the Cause may be, the *Diagnostic Signs* of this unhappy *Affection*, are commonly One or more of the following SIX; viz.

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1. THE turgid swell'd BREASTS of the *Pregnant Woman*, all on a sudden*, fall and extenuate into a *Flabbiness*.

2. † THEY diffuse copiously a thin *Waterish Milk*, not half digested to its due Perfection.

3. THE *Menstrua* return at an uncommon Rate, and in an irregular Manner.

4. THE *Woman* personally is either very frequently Sick, or long expos'd to a lasting *Sickness*. Or,

5. SHE is either subject to a very frequent, or long continu'd *Looseness*, and constant *Diarrhæa*.

6. THE *Infant* which used (as it ought) to move briskly, is now but very seldom, and more faintly perceiv'd in Motion.

ON the other hand, the *Prognosticks* of this CASE, are briefly Two: For either *Abortion* follows, or (which is worse) the *Infant* dies; if not timely prevented, by removing the *Efficient Cause* of it, upon comforting and strengthening both the WOMAN and the CHILD.

IN a Word, the Latter of these tragical Events I shall refer to SECT. V. Chap. last. But the Former leads me more immediately to consider it in the proper Method of my Discourse.



CHAP. XXX.

Of ABORTION.

WOMEN miscarry so frequently, that if any curious Persons will diligently observe and examine that Matter, they will find the Number of MIS-CARRIAGES to exceed That of timely BIRTHS: Wherefore

* Hipp. 5. Aph. 37. Cardan. in hunc Aphor. Lang. disput. 41. c. 3.

† 5. Aph. 52. Holler. in hunc Aphor. River. Prax. l. 15. c. 17.

I have reason to think, that this *Head* deserves to be handled more at large, and to be more particularly insisted upon, in the following manner,

THE *Modern Practisers* in MIDWIFERY, distinguish MISCARRIAGES, by four different Appellations; according to the four different Times of the Constitution of the CONCEPTION. viz.

A MISCARRIAGE happening in the Time of Spunification, is call'd an Effluxion of the GENITURA: That which happeneth in the Vegetation, or Time of Ramification, or (as some will have it) before the 40th Day, is call'd a Deperdition of the EMBRYO: That which falls out in the sensitive Progression, or Time of Carnification, or (as others will have it) before the 90th Day from CONCEPTION, they call an Abortion of the FOETUS. But what so happens afterwards preceding the 7th Month, is properly call'd an entire Abortion of the INFANT.

HOWEVER, Others will have a fifth Distinction made; namely, what so happens in the 7th, 8th, and preceding the 20th Day of the 9th Month, to be call'd an untimely BIRTH; because tho' born with Life, they alledge it to be very seldom, or never really Vital, or likely to Live: Upon which I shall, in good Time, introduce my own Sentiment in the subsequent Chapters of this Section.

NOTWITHSTANDING, this Definition signifies but little to the Purpose; let the MISCARRIAGE happen when it will, and under whatsoever Name or Denomination, It is nothing else in general, than an untimely Exclusion of an imperfect and immature BIRTH; which unhappy Accident may proceed from a vast Variety of Causes, stimulating NATURE to such a violent Expulsion.

I N treating therefore of this Accidental BIRTH, I shall make use of none of those Distinctions; but rather (to prevent Mistakes) shall call all its several SPECIES, of whatsoever Time, by the general (and most common) Name of ABORTION.

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AND of this ABORTION, happen when it will, the *proximous Cause* is always the *Expulsive Faculty* of the WOMB; which being hurt, or violently disorder'd in any respect, irritates and debilitates the *Retentive Power*: And then again, on the other hand, this *Retentive Faculty* (tho' not the *proximous Cause*) is sometimes first hurt or injur'd, and by that means incapacitated to retain the *INFANT*; which (in that Case) offends and provokes the *Expulsive Power* †, which is the proper *proximous Cause* of all ABORTIONS.

BUT most commonly the *Expulsive* receives the *First Hurt*; from whence the *Retentive* is oblig'd to *Sympathize*, and yield to its over-ruling *Motions*. And, according to *Galen**, the *Expulsive Faculty* may be injur'd and irritated by *Three* different *Causes*; viz. 1. By the *Bulk* of the *INFANT*, when the WOMB cannot distend itself far enough to contain it: 2. By its *Weight*, when heavier than the WOMB and *Ligaments* can bear: And, 3. By the *Humours* (when the *Membranes* break) flowing into the WOMB; occasioning a *Mordacious Itching* there, or *putrefying* the *INFANT* in its Place.

TO which *three Efficients*, some *Modern Authors* have thought it sufficient to add the *similar, organical, and common Diseases* of the WOMB; together with some *Protatarick Causes*.

HOWEVER, because I have generally observ'd *Those*, to be very promiscuously and confusedly treated of, I shall (according to my best Ability) endeavour to reduce the many different *Causes* of ABORTION to such plain *Heads*, and set them in such a clear *Light*, that they shall prove evident and manifest to the meanest *Capacity*: That *Women* (whose peculiar Good I have only at Heart in the Performance of this Work) may readily conceive them, and thereby be enabled (in most Cases) to prevent their greatest *Misfortunes*. And that whether the *Cause* happens proximously and immediate-

† Senert. l. 4. p. 2. S. 6. c. 2.

* 3. De Fac. Nat. cap. 12.

ly from a *stimulated Expulsive*, or mediately from a *lax'd and injur'd Retentive Faculty*.

WHEREFORE I shall now reduce those *Causes* to the following *Four general Heads*; namely, 1. To the *Constitution* of the MOTHER: 2. The *Constitution* of the INFANT: 3. The *Symptoms* of the MONTHS: And, 4. To the various *Procataretick Causes* of this Tragical Case.

FIRST the *Causes* of ABORTION, proceeding from the *Constitution* of the MOTHER, are *Three-fold*, and respect either her *whole Body*, her *Womb* only, or its *neighbouring Parts*. THOSE respecting her *whole Body*, are,

I. THE *four Intemperatures* of the *Body*; as the CALID, which, by its *Hot Quality*, exhausts the *Humours* (that are naturally necessary) to the Prejudice and Loss of the INFANT.

II. THE FRIGID; which, by its *Cold Quality*, vitiates and attenuates the INFANT's *Aliment*, to a starving Condition.

III. THE SICCID; which, by its *adust dry Quality*, scorches and consumes the *Ligaments*, that they break, like so many *Strings* that snap before the *Sun*: Upon which the INFANT (being deprived of those *Mediums*, through which NATURE has appointed its *Sustenance*) corrupts and decays, like a PLANT in *Arid Sandy Ground*.

IV. THE HUMID *Intemperature*; which, by its *moist Quality*, debilitates the *Retentive Faculty*, hinders the *Ligaments* to consolidate and close firmly, and opens the shut *Orifice* of the *Womb*. But besides all This also, by filling the ACETABULA with *superfluous Humours*, it may suffocate and stifle the INFANT.

V. A nimious and too great an *Obesity* or *Fatness*, and too great a *Gracility* or *Leanness* of the *Woman's* *Body*: For the *One* converts the CHILD's *Nourishment* to itself; and the *Other* starves the INFANT for want of its *natural Requisites*.

VI. A *PLETHORY*, or too great a *Repletion* of BLOOD in her Body; which frequently choaks and suffocates the *INFANT*.

VII. ALL *Corporeal Causes*, exagitating the *Spirits* and *Humours*; which have the same *Effect* and *Force* to irritate the *Expulsive Faculty*.

VIII. ALL *Diseases* incident to the Body, whether they be *Acute*, *Remiss*, or *Diuturnal*; which may easily effect *ABORTION*. But

SECONDLY, The *Causes* on the part of the *WOMB*, are not to be lightly or slightly considered; because if it be not both naturally well *constituted*, and carefully well *dispos'd*, it can neither foment, cherish, nor retain the *INFANT*. For the least *Flaw* of its *morbifick Causes*, stimulates to a great Degree the *expulsive Faculty*: which *Causes* are, in my Opinion, as follow; viz.

I. THE *WOMB'S Præternatural SIZE*, either in *Magnitude*, or *Exiguity*: The one giving room for the *Infant's* too much tumbling or too frequent Motion; and the other restraining the *CHILD* too much, even to the *suppressing* and *stifling* of it.

II. ITS *præternatural CONSTRICTION* or *Coarctation*; which may resist its necessary due *Extension*, for containing the growing *INFANT*.

III. ITS *præternatural DENSITY*; which may not only hinder the requisite *Distention*, but also prevent the *SECUNDINE* * from being firmly connected to the *Vessels*.

IV. ITS *LAXITY* of the *Orifice*, or *Levity* of the interior *Surface*; proceeding from *pituitous* † or *viscous Humours*, which slacken the *Ligaments*, and give way to the *FOETUS*.

* Senert, lib. 4. p. 2. §. 6. c. 2. de Mul. Morb.

† Hipp. 5. Aph. 45, Etmuller, de Convuls. c. 9.

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V. THE WOMB's too *frigid* and *siccid* *Intemperature*; which Qualities are the greatest Enemies to Nature and all the *Actions* of *Female LIFE*.

VI. ITS *frigid* and *humid* *Intemperature*; which (abounding with *Mucosities* or *slimy Humours*) so relaxes the *Ligaments*, that they cannot hold or detain the *INFANT*.

VII. ALL obdurate and confirmed *Tumours* and *Ulcers*, all *Erysipela's* and *Inflammations* of the WOMB: Which often prove the *Causes* of the same *Effect*.

VIII. A *praternatural Situation*, or an *oblique Position* may become the 8th and last *Cause* of *ABORTION*, which I shall mention on part of the WOMB.

FROM hence I come, *Thirdly*, in a due Method, to *Those Causes* respecting the *neighbouring Parts*; which I humbly conceive to be as follow.

I. ALL *Diseases*, *Pains*, and what *Causes* soever of those *Parts*, may tend much to deject or affect the *Spirits*, and stir up the *Humours* with unusual *Alteration*.

II. ALL *Causes* and bad *Affections* compressing the *lower Belly*, and exagitating or straining its *MUSCLES*.

III. A *praternatural Site* and inapt *CONFORMATION*|| of the *Umbilical Vessels*, for their due *Operation*.

BUT then again, *Secondly*, It also often happens that, tho' the *pregnant Woman* labours under no *Disease* or *Misfortune*, either in *BODY*, *WOMB*, or *neighbouring PARTS*, yet notwithstanding the *Expulsive Faculty* is irritated to *EJECTION* by several *Causes* of the *Constitution* of the *INFANT* itself, as follow; *viz.*

I. ITS *praternatural BULK*, or vitious *Conformation*, oppressing and straining the WOMB, either in *Whole* or in *Part*.

II. ITS *Debility* and *Weakness*, or contracted, infirm, feeble *Constitution*, as mentioned in the preceding *Chapter*.

|| Guliel. Fabric. Cent. 2. Obs. 50, & 51.

III. THE *Death* of the *INFANT*, emitting nauseous *Vapours* and putrefy'd *Matter*, stimulates the *WOMB* sooner or later to *Expulsion*: And (in this *tragical Case*) the *sooner* the *Better*; as will hereafter appear.

AND moreover, *Thirdly*, the *SYMPTOMS* of the *Months*, frequently prove *Causes* of *ABORTION*; of which *SYMPTOMS*, having already treated particularly, I shall in this place repeat little or nothing, only refer the *READER* to their respective *Chapters* in the preceding *Part* of this *SECTION*: And yet under this present *Head*, may be also comprehended all *Acute Diseases*, which (too often) prove of the same bad *Consequence*; as is evident from *Chap. 28*.

FOURTHLY, There is a great *Variety* of *Procatartick Causes*, distinct from all *those* above-mentioned, which most frequently occasion *ABORTION*: And *Those* are *Twofold*, *INTERNAL* and *EXTERNAL*. Of which the *Internal* are as follow, in my *Judgment*.

I. THE *Passions* of the *Mind* (mentioned in *SECT. I. Chap. 5.*) because such immoderate *Affections* too much excite the *Humours*, and incense the *Spirits*.

II. *VICTUALS*; if taken *too much* at a time, suffocate the *INFANT*; if *too little*, it is *starved*, and the *MOTHER* brought to a very low *Condition* of *Life*; and if *improper*, or of ill *Concoction*, the *CHILD* is thereby either much *weaken'd*, or (which is worse) it dies of course.

III. *DRINKING* immoderately, extinguisheth the *natural Calidity* of the *WOMB* and the *INFANT*; as certainly *strong* or *hot Liquors* impress a vicious *Intemperature* upon *Both*.

IV. *WATCHINGS* a-Nights, too much exhaust and dissipate the *Spirits*; as too much *SLEEP*, on the other hand, dulls, lessens, and obtunds the *natural Heat*.

V. *ALL* inward disorderly *Causes* dissolving the *Uterine ACETABULA*, *Ligaments*, or *Vessels*, by which the *INFANT* attracts its *Nourishment*.

VI. ALL *Venenated, Cathartick, and Diaphoretick MEDICINES, Acrimonious Clysters, Vena-Sections, Baths, &c*: Which partly by exagitating the *Spirits and Humours*, and partly by diminishing the *Aliment*, occasion frequent *ABORTIONS*. Again

THE *external Procatartick Causes* are These, which ensue in their due Order.

I. ALL inclement *Constitutions* or bad *Influences* of the *WEATHER, WINDS, ** and *AIR*; such as *Cold*, which pinches; or as *Heat*, which intercepts the *Breath*, and stifles the *INFANT*, &c.

II. *SMELLING* or *Touching, Sitting, or Treading* upon some Sorts of pernicious *HERBS*.

III. ALL violent *MOTIONS*, immoderate *Exercises*, &c. such as *Running, Leaping, Dancing, Riding, or Coaching, Lifting, or Carrying a heavy Weight*, also *long Fasting, strait Lacing, a Fall, a Blow on the Back or the Belly*, &c. as I hinted before occasionally.

IV. ALL *frightful Objects*, and *sudden Surprizes* by *hasty NEWS, FIRE*, or such like terrifying *Accidents*.

V. ALL *astomishing* and terrible affecting *NOISES*; such as *sudden Claps of Thunder, Cannons, Guns, &c.*

VI. ALL *nauseous STINKS*, on the one hand, and *odoriferous SMELLS, &c.* on the other, being both disagreeable and dangerous.

THOSE, and many other *trifling Matters*, such as the *SMELL* of an *extinguished Light, or Candle*, are known (too often) to be the *Reason and Cause of ABORTION*: which made (that great *Naturalist*) *Pliny* † justly take occasion to deplore the *FRAILTY* of *Man*.

“ HE bewails and is *asham'd* (as he expresth it) “ to think how *frivolous* the *ORIGIN* of the *proudest* of “ *Creatures* is; such a mere *TRIPLE* (as is mentioned) “ being frequently the *Cause* of his *FATALITY*. And “ the *Philosopher* most pertinently adds, that *He* who

* Hipp. 3. Aph. 12. Heurn. in hunc Aph.

† Lib. 7. Hist. Nat. cap. 7.

“ now glories in so many *VANITIES*, trusting in the
 “ *Strength* of his *Body*, vaunting in the *Riches* of his
 “ *Possessions*, and upon every *Smile of Fortune*, believes
 “ himself to be a *GOD*, &c. little considers how many
 “ ways he might have *miscarried* in coming into the
 “ *World*, or how many ways he may yet, even to-day,
 “ go out of it, and come to his *last GASP*, as *Anacreon*,
 “ the wanton *Lyrick Poet*, did, who was suddenly
 “ choak’d with the *STONE of a Grape*; or as *Fabius*
 “ (that noble *Dictator of ROME*) dy’d, who was imme-
 “ diately strangl’d by a *HAIR* in a *Draught of Milk*.”

I say, He little considers, how many *Trials* and *Hardships* he was expos’d to, before he had *BEING*; or, how many ways he might have been *sifted* before he had *BREATH*, and have been *dead* even before he was *BORN*.

WHICH Consideration leads me to the Thought of another Cause of *ABORTION*, mentioned by the holy Prophet * *Hosea*, where he says: “ *Because they have*
 “ *deeply corrupted themselves, and separated themselves unto*
 “ *that Shame at Baalpeor, (i. e. defiled themselves at*
 “ *the Statues of PRIAPUS) their Glory shall fly away like a*
 “ *Bird, from the Womb, from the Conception, and from*
 “ *the Birth; dry Breasts, and a miscarrying Womb shall*
 “ *be given them, &c.*”

AND having thus far briefly defin’d and descanted upon *ABORTION*, and the *Nature* of its *Efficients*, I come now, in the next place, to shew by what *DIAGNOSTICK SIGNS*, every *Woman* may infallibly know an approaching or instant *MISCARRIAGE*, either in herself or another: As also to set forth, by what *PROGNOSTICK SIGNS*, she may know the *Danger* she is threatned with upon that Occasion.

WHICH Undertaking, I hope, may prove *condu- cive* to the Welfare of that tender Sex; it being too common for *Women* to neglect the proper Means, through a supine Ignorance of the *Nature*, and *Danger* of their

CONDITION. But This, however, is generally owing to indiscreet OLD WOMEN about them; (as I have often observ'd, and oft'ner had Occasion to hear) who either keep the *PATIENT* in *Suspence*, wheedling and telling her idle Stories, that the *CASE* is not so dangerous, the *Pains*, *Floodings*, &c. will go off in good Time, and the like: Or afterwards (upon appearance of more severe growing SYMPTOMS) they extenuate the *Danger*, telling her to submit with *Patience*, the common MISFORTUNE cannot possibly be prevented, &c.

TO which usual *Suggestions*, I answer; that as the one is an ignorant and imprudent *Insinuation*, the other is a downright *Falsity*: For in the first *CASE*, the *Woman* is diverted by foolish *Hopes* from applying for proper ADVICE, until perhaps it is past all REMEDY; and in the second, she is misled very often to her utter RUIN: Since whatever hath not yet happen'd, may peradventure be happily prevented; and even upon the last *Extremity* of the most violent Occasion, the Severity of the *CASE* may possibly be averted by good Management, and the *Danger* entirely compounded for by proper Conduct.

WHEREFORE, I cannot but think, it is worth any *Woman's* while to know the MARKS of an approaching and instant ABORTION: Whereof the DIAGNOSTICKS are as follow, viz.

I. A sudden EXTENUATION and Falling of the BREASTS*; sometimes only of *One*, but more commonly of *Both*: That of *One* denoting the *Woman* to bear TWINS, of which she is about to lose *One*; and which, if the right BREAST falls, is a MALE; but if the left, a FEMALE.

II. A WATERY MILK flows † in Abundance from those FALLEN BREASTS, discovering the future Danger.

* Hip. 5. Aph. 37, 38. Cardan. & Bravol. in hunc Aphor.

† 5. Aph. 52. River. Prax. l. 15. c. 17.

III. PALPITATIONS of the *Heart*, frequently accompany'd with a *Coarctation* of the *Sides* and *Upper Belly*, very much incommoding the *PATIENT*.

IV. A *GRAVITY* or *Heaviness* of the *Loins*, and *Thighs*; *Gnawing* of the *Stomach*, *Pains* of the *Head* and *Eyes*.

V. A *TREMOR*, or *Trembling* and *Quaking FITS*, attended with a *Frigidity* of the *exteriour Limbs*.

VI. A *Rigor* and *Stiffness*, or a *Vibration* and *Concussion* of the *SKIN* and *MUSCLES* of the whole *Body*, with a concomitant *Chilnefs*.

VII. *HORROUR*, *Fevers*, *Faintings*, *Swoonings*, and sometimes *Convulsions*, *Cramps*, &c. all foreboding the coming *Malady*. These are the usual and principal *Marks* of an approaching *ABORTION*: Which when *Instant*, and the *Time* at *Hand*, then the

VIIIth *DIAGNOSTICK* plainly appears; which is a corrupt *WATER* flowing first, next a bloody *WATER*, then pure *BLOOD*, after that small *Clods* of *BLOOD*, and at length, the *INFANT* itself (*form'd* or *inform'd*) follows of *Course*.

HENCE I proceed to the usual *Prognosticks* of *ABORTION*; which take as follow in their proper *Order*, viz.

I. ALL *Women* are more endanger'd in a *MISCARRIAGE*, than in a *Natural Birth*: because THAT happening at a *preternatural Time*, is of greater *Violence* than THIS. For like as *ripe Fruit*, whose *Stalk* is so loose in its *Season* from the *Tree*, that the *Fruit* falls of its own *Accord*: So it is in a *Natural Birth*, for the *Vessels* and *Ligaments*, by which the *INFANT* adheres to the *WOMB*, easily loose and break spontaneously; which in an *Abortion*, must needs happen by a more dangerous painful *Force* and *Violence*.

II. THO' *Women* (in this *Case*) may frequently escape with their *Lives*, yet their *Natural Constitution* is thereby too often broke at least, and debilitated, or there-

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thereupon subjected to one or other heavy *SYMPTOM* or *DISEASE*; if not also rendred quite *BARREN*.

FOR sometimes, because of the *Pains*, *Flux*, or *Putrefaction* of the retain'd *BLOOD*, *Fevers*, and other *Distempers* generally ensue: Sometimes by the violent *Disruption* of the *Vessels*, great *Floodings* and *Loss* of *BLOOD* happen; upon which *Faintings*, *Swoonings*, *Convulsions*, and at length *DEATH* it self follows: But, in fine, *Convulsions* happening * either at the *Time*, or after *ABORTION*, the *Case* is most dangerous; for then the *PATIENT* seldom escapes.

III. *THE first MISCARRIAGE* is most dangerous to all; because the *Genital Parts* are more streight or constricted, and less acquainted with such severe distending *Pains*: And besides the *ORIFICES* of the *Vessels* being so violently dilacerated, the *Party* often continues afterwards *Sterile* or *Barren* the rest of her *Life* †.

IV. *LEAN* and tender *Women* are much endanger'd in *ABORTION*, by Reason of their *Debility* and *Infirmity*: As *Women* too fat are, on the other *Hand*; because of the great *Astriction* and *Narrowness* of the *PASSAGES*.

V. *THE younger the ABORTIVE Production* happens to be, the less the *Woman* is endanger'd; because the larger the *INFANT* is, it gives the greater *Pains* and *Rupture* of the *Vessels*.

VI. *WHATEVER* happens in the 7th or 9th *Month*, may be reckon'd a *safe BIRTH*, provided the *Child* be *ALIVE*: Whereas if *DEAD*, it is extremely dangerous. But above *All*, the *Eighth MONTH* is to be most dreaded, not only because of the *Largeness* of the *INFANT*, but also because of the pernicious *Quality* of that *MONTH*; as will hereafter more amply appear in *Chap. 34*.

* Sydenh. Prax. Med. lib. 3. cap. 13.

† Senert. de Morb. Mul. lib. 4. p. 2.

WHICH Consideration leads me farther to observe; That, from the Beginning of the 5th, until the Middle of the 6th Month, the *INFANT* is least liable to *Danger** : So next in the 4th, and from the Middle of the 6th, until the Close of the 7th Month : Then of course it is *safer* in the 3^d and 2^d Months, than in the 1st or 9th. For the least Cause may expell the *EMBRYO* in the *First*, and break the *Mature Ligaments* of the *INFANT* in the *Ninth*. But of all the whole Time, as I said before, the 8th Month is the most † dangerous, both to *MOTHER* and *INFANT*: according to which Consideration and Order of TIME, the prudent *Physician* may, with more or less either *Fear* on the one hand, or *Assurance* on the other, exhibit or prescribe proper *REMEDIES* for the *Preservation* or *Recovery* of his *PATIENTS*.

FROM whence I come in the next place to offer my serious *Sentiments* upon the *CURE* of this *Malady*, and the *Prevention* of *ABORTION*: Which difficult *Work* depends chiefly upon the *Preservation* of both *MOTHER* and *INFANT*; for when the *MISCARRIAGE* is once over, the *CURE* then does not much differ from the *Case* of a *natural BIRTH*.

HOWEVER in all *Cases* of this nature, it is an infallible *Maxim*, that it is more easy to prevent *MISCARRIAGE*, than to relieve or rectify the *Miscarrying Woman*; and more proper to begin that *Prevention* BEFORE, than AFTER *Conception*: Because the most proper *Remedies* for obviating many *Causes* of *ABORTION*, cannot so well be adhibited to the *Woman* after she is *PREGNANT*. And besides, as those *Causes* are very *Different* and various (as more fully appears from what has been said); so the *Manner* and *Method* of *Prevention* cannot be altogether exactly *Uniform*; every *Cause* requiring its respective *CURE*, before a *Prevention* can be effected.

* R. à Cast. de Morb. Mul. l. 3. c. 21.

† Hipp. Lib. de Oñimeff. Part. Plin. Nat. Hist. lib. 7. cap. 5.

WHEREFORE, in my humble Opinion, the *first Step* towards this *Prevention* is to weigh well and consider carefully the *CONSTITUTION* of the yet *unimpregnated Woman*; in order to know and discover the *Cause* or *Causes* either of *BODY*, or *WOMB*, which may or can occasion any future *ABORTION*. Now in this *CASE*, *Women* having once *miscarry'd*, or oftner, methinks they may easily find out the *CAUSE* *Themselves*, by the *Help* of their *Midwives*; which being done, they should endeavour to have it remov'd, and effectually *cur'd*, before they *conceive* any more. However, if it chance to be neglected at that time, it may be more prudently undertaken afterwards, with such *Precaution*, as the *Nature* of the *CAUSE* and *CONSTITUTION* of the *Woman* require: Always remembring, but especially *before* or *about* the usual *Time* of *ABORTION*, to make use of proper *Corroboratives* for strengthening both the *INFANT* and *WOMB*; since *Women*, *miscarrying* from any one internal *Cause*, commonly bear their *Conceptions* to a certain *TIME*, which they cannot exceed, unless that *Cause* be judiciously removed beforehand.

I ONCE had an accidental Opportunity of being fully satisfied of the *Veracity* of this *CASE*, in a *Woman* of good *Note* in the *City* of *Dresden*; who *miscarried fourteen Times* in less than *eight Years*; being never able to go beyond the *tenth Day* of the *fourth Month*, and commonly losing the *Foetus* about the *last* of the *Third*.

AT my Arrival in that *Place*, I found my *Credit*, for my necessary *Supplies*, upon a certain *MERCHANT*; who (with great *Concern*) gave me this melancholick Account of his *SPOUSE*, desiring my good *Offices*, if possibly any *Means* could be of *Service*. Upon which, I first made it my *Business* to discover, *that internal Cause*, wherein *she*, and her ordinary *Midwives*, had been so often mistaken; this being done, I happily performed the *CURE*, tho' (as a *Traveller*) I had not the Satisfaction of staying there to see the *Consequence*. But, how-

K

ever,

ever, by my last Advices from the grateful *Husband*, I find *she* is now MOTHER of two pretty Boys and a fine Girl.

THE Cause of ABORTION then being duly and discreetly first discovered, if it proceeds from any *Intemperature* either of the BODY or the WOMB; the same may be prevented chiefly by introducing the *contrary Temperament*, according to *Hippocrates's* * Judgment, that *Contraries are the REMEDIES of Contraries*.

IF it proceeds from too much FATNESS, her *Body* is to be reduced; if it comes from too much LEANNESS, a convenient *Diet* and good *Regimen*, &c. will help to restore her.

IF it happens from a PLETHORY, the too-much abounding BLOOD is to be circumspectly lessened: As the Humours are to be judiciously evacuated, if it arises from a *Cacochymy*; and all Causes affecting the Spirits and Humours are to be carefully removed and avoided.

DISEASES of the whole *Body* are to be prevented as much as possible, by a *Regularity* of proper DIET and REGIMEN of Health; but whenever These are incident, they ought to be cured, as the *Nature* of the DISEASE and CONSTITUTION of the *Woman* will prudentially permit.

IF ABORTION happens from any Cause on the part of the WOMB, that must absolutely be removed before CONCEPTION, and resisted afterwards during the FOETURA, by the discreet Use of proper Means.

IF it arises from any Cause of the Neighbouring Parts, that is to be carefully managed or avoided, and prevented more easily than cured.

AS to the Causes on the Part of the INFANT, I shall refer the READER to the preceding Chapter only; as I do likewise if it comes from any SYMPTOM of the Months, or from any Acute Disease, to their respective Chapters in this SECTION.

* 2 Aph. 22. Hoffman. Method. Medend. l. 1. cap. 13.

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FINALLY, If it proceeds from any *Procatartick CAUSES*, either *internal* or *external*, all such are to be sedulously avoided and prevented; but whenever *These* happen, they are generally cured by proper *ALTERATIVES* of an *Astringent Quality*, for confirming the *Ligaments*; and *CORROBORATIVES* for comforting the *INFANT*, and cherishing the *WOMB*.

BUT supposing, at last, the *Case* desperate, and past all *REMEDY*, through *Negligence* or *Delay*, that the *CURE* cannot possibly be effected, nor the *Misfortune* of *Instant ABORTION* prevented; why then the *Woman* ought to be carefully comforted and strengthened, the *Ligaments* relaxed, the *Passages* dilated, and the *expulsive Faculty* assisted; so that the worse *Consequences* and greater *Danger* may be averted.

AND having now, in fine, thus at large treated upon the Subject of *ABORTION*, it leads me methodically (of Course) to touch upon all other *BIRTHS* respecting *Time*; I mean *Legitimate* and *Illegitimate BIRTHS*: Which (however) I shall discuss in as *succinct Terms* as I can, to oblige the *READER*. And first,



CHAP. XXXI. Of a LEGITIMATE BIRTH.

A *Legitimate BIRTH* respects *Time* only, and that is properly so called, which most frequently happens, according to the *Common Law* of *NATURE*.

IT is never sufficiently to be admired, as *Wonderful*, that *MAN*, who is born *HEREDITARY LORD* of the *Universe*, and invested with *SUPREME DOMINION* over all *Creatures*, should, however yet, be the only one deprived of some certain *definite Time* for his *BIRTH**;

* Plato 5. de Repub. Aristot. 7. de Hist. Animal. cap. 4. & 4 de Gen. Anim. cap. 6. Sect. 10. Problemat. 30. Gellius lib. 3. Noct. Attic. cap. 16. Plin. lib. 7. Nat. Hist. cap. 5.

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it happening often in the *seventh*, commonly in the *ninth* and *tenth*, and sometimes in the *eighth* and *eleventh Months*, and *That* also at all Times of the Year : Whereas, on the other hand, all the rest of *inferiour Creatures* have their certain *prefixed Times*, both of *carrying* their *YOUNG*, and *bringing them forth*, beyond which they cannot go, nor controul the Order of *NATURE*.

HOWEVER, this being the *Good Work* and *Will* of the Great *CREATOR*, deserves more our silent *Wonder* and *Admiration*, than our bold *Enquiry*, or curious *Scrutiny*, into the *REASON* of it.

BUT notwithstanding, I hope, we may easily account for the *Latitude* of *TIME* allowed our *Births*, when we consider what has been said of the Times of *Formation* and *Animation* in their proper Places †. If then these require a proportionable *Latitude*, what wonder is it that the *Legitimate Time* of Birth is of such *Extent* ? Not that I mean that the *rational Soul* is introduced either at different Times, or by Piece-meals, only that it is not *done* this or that Day *precisely*. And farther (according to *AVERROES*, that great *Commentator*) *Man* ||, not only in the *Womb*, but also after Birth, even until his *Juvenile Age*, but *a-generating* ; and from that Time to old Age begins to *decline* : yet we daily see that *this Change* is not equal to all, in that some Men do but arrive to their most robust and *vigorous State* about the fortieth Year of their Age, whereas others come to that Length about the thirtieth, and most about the thirty-fifth.

AS it is an *Auspicious Crisis* which happens any Time of the *Critical Day*, whether anticipated or postponed by a few Hours : And as the *Fruit of Trees* have their constituted Time of *Maturity*, which notwithstanding some are perfected sooner, and some later ; so (I think) it may be also in the present Case of *Births*.

† Sect. I. Chap. 7, 8.

|| in Com. 2. de Generatione.

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HOWEVER yet, to go a little further, without Offence: As to the *Legitimacy* of *BIRTHS*, I don't see any Reason why every *Birth*, producing a *vital Child*, may not be justly esteemed timely *lawful*, whether it be of the *seventh, eighth, ninth, tenth, or eleventh Month*: But because few of our antient and learned *Predecessors* have been inclined to admit any standing *RULE* of such a large *Extent*, in this *CASE* we shall be far from desiring to establish any *New One*, or advance any *Paradox*.

I SHALL therefore (in this Place) only touch upon *That* which most *Authors* seem to have agreed upon, and reckon the most common *Legitimate Birth*; namely, which happens (at the soonest) about the 26th Day from *CONCEPTION*, being the *first* of the 38th *Week*, or the 20th of the *ninth Month*; as it doth also sometimes fall out (*ten Days later*) about the 27th, when it is neither *too soon*, nor *too late*; and which likewise (at the latest) happens before the 28th Day; that is, the *last* of the 40th *Week*, or the 10th Day of the 10th *Month*.

BUT *This* (if I may be permitted to speak my Mind) depends much upon the *Time of Conception*; it being my Opinion, that if the Woman did conceive when *recently purged*, I mean shortly after the natural Flux, she may *bring forth* in the beginning * of the 9th *Month*; whereas, if when the *Menstrua* were almost ready to *flow*, towards its *Close*, or later: And if in the *Interval* betwixt these Times, she may produce her *Child* in the *middle* of the *Month*: Because as *Plants* or *Corn* arrive much sooner to *Maturity* after the *New* than after the *Full-Moon*, so it may be also with the *Fœtus*, because of the more or less *Vigour* of the *Womb*.

HOWEVER, in short, it is to be observed, that in all these *Cases*, we may commonly allow a few more Days for the *GIRL* than the *BOY*, as appears from *Señ. I. Chap. 9.*

* R. à Cast. de Nat. Mul. 1. 4. c. 2.

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AND, in fine, according to the Opinion of the most Learned and Curious *Practisers* in *MIDWIFERY*, this *BIRTH* happens always || at the *self-same Hour* of the *Day* or *Night*, in which the *Woman* CONCEIV'D: So that from hence it is, that most *BIRTHS* happen in the *Night*, or *Dawning* of the *Day*; wherefore they All agree, that a *Legitimate BIRTH* requires not only a certain definite Number of *Days*, but also of *Hours*, &c. To proceed therefore to

C H A P. XXXII.

Of an ILLEGITIMATE BIRTH.

AS an *Illegitimate BIRTH* also respects *TIME*, so That is only to be call'd so, which happens *before* or *after* the *TIME* instituted by the *Law* of *NATURE*. Hence all unhappy *ABORTIONS* belong to this *Head*; which being largely handled (a-part) in the *Chapter* just aforegoing, I shall only here cursorily touch upon *That*, which (in a distinct sense) is accounted an *Illegitimate BIRTH*.

THAT I may the better define *This Sort* of *BIRTH*, I shall *first* observe, that *NATURE* has instituted Nothing *rashly*, nor in *vain*, neither does it ever act by *CHANCE*. She having then limited a certain *TIME* (however at large) within which all *Legitimate BIRTHS* happen, and all *vital Children* are born; of consequence, whatever happens *before* or *after* that *Time*, is an *Illegitimate BIRTH*, and seldom or never produces a *Living* or *Lively CHILD*.

HOWEVER, *Vallesius* *, *Cardanus* †, and some Others relate divers strange *Precedents*, and affirm that

|| R. 2 Cast. lib. 4. cap. 4.

* De Sacra Philos. cap. 18.

† Lib. 1. Tract. 3. Contrad. 8.

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they have known and seen *Children* born in the *fifth* and *sixth Months*, which have liv'd to the Years of Discretion; It is notwithstanding my Opinion, that *Those great Men* giving ear to the frivolous *Relations* and idle *Reports* of *simple Women*, have suffer'd their *Credulity* to impose so far upon their better *Judgments*. And I am besides the more induc'd to think so, because since *Their days*, we have not heard of any *one Example* of this wonderful *Kind*, which deserv'd the least *Notice* or *Credit*.

BUT there are *Others* again; who (in a manner) ridiculing these *Instances*, fall into grosser *Absurditys* themselves; denying the LEGITIMACY of a *seven* or *eight Months BIRTH*; yea, *Some* even of a *Ten Months*, after the *Tenth Day*, as well as of all *posterious BIRTHS*. Upon which erroneous *Mistakes*, (if it may be without Offence permitted) I would freely offer my *simple Judgment*, in manner following: and thereupon, *First*,

C H A P. XXXIII.

Of a Seven-Months BIRTH.

TO prove the LEGITIMACY of this *BIRTH*, and the Possibility of this *Month's* producing a *vital Child*, I need not confine my-self to the *Judgments* of the most Wise and Divine *Hippocrates, Galen*, and *others*, nor to the Principles of *Physick* in particular: but may justly appeal to All the rest of the *Liberal Arts* and *Sciences*, which (as far as I am duly acquainted with them) generally agree in *Defence* of This Position.

IT is (however) certain, that the *CHILD* born before the *Twentieth Day* of this *Month* is commonly *weak* and *infirm*. And for that Reason the later the *BIRTH* happens in the *Month*, the more *brisk* and *lively* is the *CHILD*: As I have more than once observ'd, that the

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Latter Part (about the 210th Day from *CONCEPTION*) hath produced as sprightly vivacious *Children* as any at All. Wherefore, in short, I cannot help having full as good an Opinion of such a *CHILD* born about the last of the *SEVENTH*, as of any such born in the beginning of the *Ninth Month*, provided it be not expell'd by some *preternatural Cause*.

TO examine this nice Matter a little more clearly, let us inspect into the *Nature* and *Quality* of the *MONTH*: In order to which, I hope, we may rationally observe,

I. *T H A T* (according to the best *Astrologers*) the latter of the *PLANETS*, (the *Moon*) influentially presides over the *INFANT* in this *Month*; whose frigid and humid *Qualitys* are thought to afford the several *Parts* of it a certain *Fatness*, thereby relaxing and easily distending the *MATRIX*: Which being done, and the *CHILD* now perfected by the whole Body of the *PLANETS*, that have *All* particularly (in their order) duly discharg'd their respective *Functions* towards its Perfection; provided it has a Competency of *Strength* and *Vigour*, it forwardly appears about the Close of this *Month* with great *Ease* and *Facility*, and may continue both *Healthy* and *Lively* after its *Birth*.

II. *T H I S* is universally acknowledged to be a perfect and compleat *NUMBER*; from whence *Cicero* calls it *NODUS OMNIUM*, or the *Knot of all Things*. As the Wise *Pythagoreans* justly term it otherwise the *Vehicle of Man's Life*: Not only because that, according to the *Violence* of any *DISEASE*, and the *Strength* of the *PATIENT*, a *CRISIS* happens either in the *Seventh*, or the multiply'd *Seventh Day*; but also because, as *CONCEPTION* is certain upon *Seven-Hours Retention*; and the Work of *Coagulation* perfected in *Seven Days*, so may That of full *Maturity* be in *Seven Months*, and accordingly this *MONTH* may very reasonably produce *vital Children*. But by the way,

HOWEVER fictitious such things as favour of *Astrology*, may be reckon'd by *Some*, yet who knows not that the *Seventh Hour*, and *Seventh Day* after its *BIRTH*, deter-

Chap.33. Of a Seven-Months Birth. 137

determines the CHILD either to *Life* or *Death*? Who does not well know, That in the *Seventh Month*, its *TEETH* begin to break out and appear? That in the *Seventh Year* (according to *Plutarch*) it changes its *TEETH*? Who does not find, That * the *Age of Man* depends upon *SEPTENARY Mutations*? That the *First Seven Years* conclude his *INFANCY*; as the *Second* finish his *PUERITIA*, or *Childhood*; and the *Third* compleat his *ADOLESCENTIA*, or *Youthful Growing Age*? To which his *JUVENTUS*, or more vigorous *Youthfulness*, succeeds; which is absolv'd in *twice Seven Years* more: For in *This Juvenile Age*, the *Body* attains to its full *STATURE*; as the *Bones*, *Membranes*, and *Fibres* arrive to their due *Solidity*.

THIS again is succeeded by the *Fifth*, call'd *VIRILITAS*, the *Virile* or *Manly Age*; consisting of *twice Seven Years* more; being in all *Seven times Seven Years*: In which *MANHOOD*, the *Facultys* of the *MIND*, as well as the *Strength* of the *BODY*, are most resplendent and perfect; tho' in almost All *Women*, the *Generative Power* begins to cease at this *AGE*, as their *TERMS* commonly do, however, not without a great *Disorder* of the *Motion* of the *BLOOD*.

THE *Sixth Age* of *Man*, or the *SENECUS*, is compos'd of *twice Seven Years* more, and extends itself, to *Sixty Three*: In *This Old Age* the *Natural VIGOUR* very much declines, the *BODY* waxes both *dry* and *lean*, the *MEMORY* begins to fail, and the *PERSON* grows more *Anxious*, *Careful* and *Covetous*. As in the *Seventh* and *Last Age*, (or *DOTAGE*, as it were) he becomes *Feeble* and *Decrepit*; which generally consists of *Seven Years* more. So that, in fine, according to this very rational and plausible *Computation*, of the *Learned* and most *Ingenious Dr. Sprengell*, the *AGE* and *LIFE* of *MAN* is commonly reckon'd to amount to *Seven times Ten Years*.

IT is also farther observable, that as the *SOUL* of *Man* has *seven* different *Appellations*, according to its se-

* Sprengell in Sect. 10. Aphor. Celsi 9.

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ven principal Offices, (as amply appears by Sect. I. Chap. 4.) so there are *SEVEN* Degrees in the Body, to compleat its *Dimensions*; viz. *Marrow, Bone, Nerve, Vein, Artery, Flesh, and Skin*: As there are also *SEVEN* in Number, which (according to *Macrobius*) the *Greeks* call *BLACK MEMBERS*; viz. the *Tongue, Heart, Lungs, Liver, Spleen, and Two Kidneys*, to consummate the *Compositum*. Yea, *Hippocrates* * himself confirms the *Efficiency* and *Præstancy, Fulness* and *Perfection* of this Number.

I have also remarkably observ'd, that the Number *Seven* is most powerful and signally predominant in *Cælestials*; as the *Seven Circles* in the *HEAVENS*, according to the *Longitude of the Axle-Tree*: The *Seven Stars* about the *Artick-Pole*, call'd *CHARLES'S-WAIN*: The *Seven Stars* also call'd *PLEIADES*: The *Seven Planets*, giving *Names* to the *Seven Days of the WEEK*: The *Periodical Revolution* of the *MOON* every *Seventh Day*, running round the *Compass* of the whole *ZODIACK* in *Four Times Seven Days*; that is, considering her *Phases* as obverted to the *SUN*. And *Linus*, a most ancient celebrated Poet, sings thus:

- " *Septima cùm venit Lux, cuncta absolvere cœpit*
- " *Omnipotens Pater, atque bonis, & septima, & ipsa,*
- " *Est etiam rerum cunctarum Septima Origo;*
- " *Septima prima eadem perfecta, & Septima Septem,*
- " *Unde etiam Cælum stellis errantibus aptum*
- " *Volvitur, & Circ'lis totidem circum undique fertur.*

THIS Number seems likewise to be of the greatest Esteem in Religion; and from hence among the *Hebrews*, to swear, is call'd *SEPTENARE* †, (that is, to protest by *Seven* :) So *Abraham* making the *COVENANT* with *Abimelech*, appointed *Seven Ewe-Lambs* for a Testimony: The *Seventh Day* the Great *CREATOR* rested from his Work: *Jacob* served *Seven Years*: *Seven Days* the People bewail'd the Death of *Jacob*: *Elisha* (the Prophet) said unto *Naaman* (the Syrian Captain) Go and wash thy

* Lib. de Carnibus

† Corn. Agrip.

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self *Seven Times* in *Jordan*, and thou shalt be made whole, and thy *Flesh* become clean: And, in fine, *David* said, *Seven Times* a day do I praise *THEE*, because of thy righteous Judgments.

THESE, and innumerable such-like *Sentences* are not only couch'd in the *Books* of *Moses*, and the whole *Volume* of the *Old Testament*; but also expressly contain'd in the *GOSPEL*, and interspers'd through the whole *Bulk* of the *New*: As the *Seven Beatitudes*, the *Seven Virtues*, the *Seven Vices*, the *Seven Petitions* of the *LORD's PRAYER*, the *Seven Words* of our *SAVIOUR* upon the *Cross*, &c. But besides, in the *Apocalypse* or *Revelation* of *St. JOHN*, this mysterious *NUMBER* is most frequently mention'd, to denote its *Efficacy* and *Excellency* of representing some *Ænigmatical Truth* or *Emblem*.

MOREOVER, the *Divine Apostle* signifies and sets forth there, the *Persecution* of the *CHURCH* (under the *Tyrants*, *Domitian*, *Trajan*, &c. which began in the *Primitive CHURCH* in his own Days, and continued for three hundred Years, even to the *Reign* of *Constantine the Great*) by the *Allegory* of * *SEVEN SEALS*. He figures out the *Heresys* of the *ARIANS*, &c. (from the *Time* of *Constantine* to the *Reign* of *Theodosius*, being three hundred Years more) by that of † *SEVEN TRUMPETS*. And, in fine, he mystically alludes to the future *Plagues* of *ANTI-CHRIST* (from the *Time* of *Pope Bonifacius* to these our present Days) by ‖ *SEVEN VIALS*, according to the *Interpretation* of that most Learned *Divine*, *Peter Palladius Bishop of Rochel*.

I say, with Submission to wiser Heads, that *These* and the whole *Train* of those *Sacred Allegorical Allusions* used in this *Book*, might have been as pertinently express'd by any other *Number*, as the *SEPTENARY*; were it not that, this *Number* better implies a certain *FULNESS* of *Sacred Mysteries*: As I think that *Number*

* Chap. 4, 5, 6, & 7.

‖ Chap. 18. to the end.

† Chap. 8. — 18.

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likewise (in all rational probability) may properly portend here, *PERFECTION* in *Maturity*, and *COMPLETION* in *Vitality* to every *Full Seven-Months CHILD*.



C H A P. XXXIV.

Of an Eight-Months BIRTH.

AS to this Point, the *Case* indeed differs much in my Judgment from the *Former*; For tho' I have heard some loquacious *Women* strenuously aver the *contrary*, because of their own rash *Mistakes*; yet I cannot help being of the same *Opinion* still, that this *MONTH* seldom or never produces a *living*, or *lively CHILD*: And that because, if the *INFANT* hath *Strength* enough, it must needs appear about the *Close* of the *Seventh Month*; but if not, the *Attempts* are the same, according to its greater or less *Abilities*; (as most *MOTHERS* may very sensibly observe in their own *Conditions*, by its extraordinary *Motions* and *Struggles* at that *Time*) whereby it is so *weaken'd* and *debilitated*, that it requires the *Eighth full Month*, and *Part* of the *Ninth*, to recover itself, and recollect its *exhausted Strength* and *Vigour*.

ANOTHER *Natural Reason* besides may be given for *This*; because that this *MONTH* is peculiar to the *Planet SATURN*, which is an *Enemy* to all *Creatures* that breath *LIFE*: For! he now returns not with the same *Meekness* and *Lenity* of *Influence* that he used in the *First Month* of the *CONCEPTION*, but with a far greater *Severity* of *Tyranny* and *Enmity*; as by his *Frigidity*, lessening and extinguishing the *Native Heat* of the *INFANT*, rendering it *Unactive* and *Slow* to *Motion*; so by his *Siccity*, constringing the *Passages* and *Orifice* of the *WOMB*: which, if so, must (of necessity) very much endanger doth the *MOTHER* and the *INFANT*.

BE

Chap. 34. Of an Eight-Months Birth. 141

BE this as it will, yet it is most certain, that the CHILD born in this MONTH is always very *Weak* and *Sickly*; However if, by chance, it survives the 14th, it may live till about the 40th Day, when it most commonly *breathes its Last*: Yet if it also survives this *Time*, the greatest *Danger* being then over, it may, by the means of tender CARE and ART, be brought up as others are usually reared: But how *long-liv'd* soever, or well-governed its *Health* may be, it will still continue of a *weakly* and *tender Constitution* of Body, if not also half-witted † in Mind.

UPON this *Head* some *Egyptian Writers* mention, that because *Dionysius*, who was born in the EIGHTH MONTH, lived in the *Island* of NAXOS; therefore both this *Number* and the *Island* were dedicated to his everlasting *Memory*: Whereupon, they say, he obtained the *Prerogative* and *Privilege* from the GODS, that the *Women* of NAXOS only, in this MONTH, should bring forth in *Safety*, and their CHILDREN only enjoy *Vitality*.

WHICH *Fable* may however serve to satisfy us, that they have had no better Opinion of an *Eight-Months BIRTH*, in those *Antient Days*, than the Generality of *Learned Men* yet have in these *Modern Times*: signifying in the main, by this comical *Allusion* to that little *Island* in the *Ægean Sea*, that if, peradventure, an *Octimestrian BIRTH*, by its more propitious *Destiny*, should be determined to *Life*; that ought to be looked upon as something *Extraordinary*, and not laid down for any general *Hypothesis*: especially for this manifest Reason, because in all other Nations, such CHILDREN are commonly observed to be but short-liv'd; as the *Women*, labouring with CHILD at that critical * or fatal TIME, are absolutely exposed to the severest of excruciating PAINS, and the greatest of imminent DANGERS.

* Plin. lib. 7. cap. 5.

† R. à Cast. de Nat. Mul.

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MORE OVER, *Hippocrates* himself testifies, that the very *Gestation* * of the *eighth Month* is the most onerous and difficult of all the Time, as well on account of the *Indisposition* of the *Womb*, as by reason of the *Mother's* being affected by the *disturbing Motions* of the *Infant*: Wherefore if the *Birth* then draws on, it receives a double Damage, and suffers as well because of these *Affections* of the *Mother* and *Womb*, as by its own proper *Motions* in precipitating itself.

FROM what is said, we may easily comprehend what *HIPPOCRATES* means by that obscure † *Ænigma*, which some have formerly reckoned more inextricable than any *Herculean Knot*, viz. *An Octimestrian Birth is and is not*; signifying thereby nothing else than that the *Child* born in the *eighth Month* (in some respect) may be supposed in *Being*, but really and indeed *is not*, because it soon vanishes and *dies*.



C H A P. XXXV.

Of a Nine-Months BIRTH.

THE Generality of *Modern Writers* have too strictly confined a *Legitimate Birth*, and tied it down to this very *MONTH* only; and *some* even restrain it to the narrow *Limits* of its *Latter Half*: Both equally affirming *That Time* to produce the most vigorous and lively *Children*, and strenuously alledging it to be the *only* appointed *TIME* of *Nature*; because (as they say) *it happens most frequently*.

BUT unless they could produce some better *natural Reasons* than *THIS*, or any *others* indeed that I have yet

* Lib. de Octimest. Part.

† Lib. de Alimento.

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heard of, they shall scarce influence me to agree with their popular *Notions* or vulgar Errors: For their fond Opinion seems not to be so much supported by any *Arguments* of *Natural Reason*, as by an *imaginary Experience*, founded upon *Hearsay*, or the *general Misconstruction* of *WOMEN*.

HOWEVER, in *Condescension* and *Good-Manners* to *Female Authority* (to which I owe all imaginable *Deference*) I shall not launch out into any immodest or disagreeable *Contradictions*; but, on the contrary, I shall endeavour to make it evidently appear from the *Nature* of the *MONTH* itself, that it indisputably induceth both *Perfection* and *Vitality* to the *CHILD*, whether it be born at this *Time* or not: For I must frankly own this *Truth* indeed, that many *Auspicious BIRTHS* happen in this very same *MONTH*, for several good Reasons.

I. BECAUSE then, if we will believe *Astrologers*, JUPITER now returns with his *Serene Aspect*, by his pure healing *Heat* and *Humidity*, cherishing and renovating the *Life* of the *INFANT* (which consists of those two *vital Qualities*) and quite effacing the former *Mischiefs* and *Injuries* of noxious SATURN: whereby he renders *This ninth Month* not only most conducive to the *BIRTH*, but also to the future *Welfare* and *Prosperity* of the *INFANT*.

II. BECAUSE this auspicious *Number NINE* is dedicated to the *MUSES*, according to the *Order* of the *Celestial SPHERES*: Hence as we have *nine moveable Spheres*, viz. the *Primum Mobile*, the *Starry Heaven*, and the *Spheres* of SATURN, JUPITER, MARS, SOL, VENUS, MERCURY, and LUNA; so there are *Nine MUSES* appropriated to them, to accomplish their *Harmony* or *Consort*.

III. BECAUSE to denote the *Sufficiency* of this *NUMBER*, there are also *nine ORDERS* and *CHOIRS* of blessed ANGELS; namely, *Seraphims*, *Cherubims*, *Thrones*, *Dominations*, *Powers*, *Virtues*, *Principalities*, *Archangels*, and *Angels*: Which the Prophet EZEKIEL* emblematically

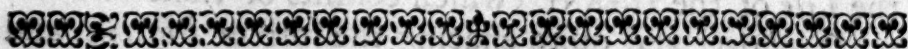
* Chap. xxviii. 13.

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tically figures out by Nine STONES ; as the *Saphire, Emerald, Carbuncle, Beril, Onyx, Chrysolite, Jasper, Topaz,* and the *Sardis.*

BUT besides the *Nine* internal and external SENSES, mentioned in *Sect. I. Chap. 5.* more plainly and familiarly denote the *Perfection* of this NUMBER : As, in like manner, the most learned *Authors* of all Ages take great Notice of it in the AGE of *Man*, calling this *Ninth*, together with the *Seventh*, CLIMACTERICAL Years.

NOT to mention the *Ninth Hour*, in which our Blessed SAVIOUR breathed out his Holy Spirit ; the *Ninth Day* the *Antients* buried their DEAD, and many such remarkable Instances. Yet however, in most *Natural* and *Philosophical Cases*, this NUMBER implies still some *Imperfection* ; because it comes short of the Complement of the Great Number TEN (being deficient by ONE) as *St. Austin* interprets it of the TEN LEOPERS. Wherefore not to go too far in these MYSTICAL Matters, I proceed to



C H A P. XXXVI.

Of a Ten-Months BIRTH.

AS to this Point, it is not only True in Part ; to wit, during the First Ten Days of the 10th Month, as SOME would have it ; but rather (in my Opinion) Altogether, and at any time of it, as LEGITIMATE as the 9th Month ; according to *Plautus* the Comick Poet ; *Tunc illa quam compresserat, decimo post exacto Mense hanc peperit Filiam.*

FOR altho' *Women* commonly reckon their BIRTHS more frequent in the *Ninth Month* ; yet many Learned Men have left it (as a doubtful Controversy) undecided whether THAT or THIS be the most proper natural Time : Whereas Some of the first RANK * have more

* Plat. 5. de Republ. Aristot. 7. de Hist. Animal. c. 4. Phavor. apud Gell. lib. 13. c. 16.

positively

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positively determined a *Legitimate BIRTH* to happen in the *Tenth Month ONLY*, according also to *Virgil's* excellent Poetical Computation—

“ *Matri longa decem tulerunt fastidia Menses.* ”

MOREOVER, for a farther Proof of this Argument, I need only refer to *Solomon*, the wisest of *Kings*; who being the greatest *Master of all ARTS*, cannot be supposed to have been ignorant of This *Truth*: And whose express Decision of this Doubt, we have set down in the Beginning of the 7th Chapter of his *Book of WISDOM*; saying, “ *I myself also am a mortal Man, and the Offspring of him that was first made of the Earth, and in my Mother's Womb was fashioned to be Flesh in the time of TEN MONTHS, &c.* ”

BUT farther yet, as to the *Nature* of this *Month*, *MARS* is presumed to succeed in it, who indulges the *INFANT* by his *amicable Qualities*, or *benign Influences*: For *He* is deemed a Friend to *LIFE*, as he affords *Vitality* to the *BIRTHS* happening in it.

AND again, this *Number TEN* is reckoned a *Compleat and Universal NUMBER* in all *Sciences*; because we cannot account beyond it, but by *Replication*, a *Re-assumption* of the *UNIT*, or *Repetition* of the *Nine Figures*, to perfect the *Progression*. But farther still, to denote the *Excellency and Perfection* of this *MONTH*, there are *TEN Singers of Psalms* mentioned in *Holy Scripture*; namely, *ADAM, ABRAHAM, MELCHISEDECH, MOSES, ASAPH, DAVID, SOLOMON*, and the *three Sons of CHORAH*: *TEN Musical Instruments*: *TEN Strings* in the *Psaltory*: *TEN Curtains* in the *Temple*: *TEN Commandments* instituted and given directly by *God himself*: AND, in fine, the *TENTH Day* after *Ascension* the *HOLY GHOST* came down, &c.

THERE are besides also *TEN Parts*, of which *MAN* himself consists intrinsically; viz. the *Spirit, Brain, Lungs, Heart, Liver, Gall, Spleen, Kidneys, Testicles*, and *Matrix*: And likewise *TEN Simple Integral*
L
Parts

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Parts constituting the *MAN*, to wit, *Bone, Cartilage, Nerve, Fibre, Ligament, Artery, Vein, Membrane, Flesh,* and *Skin*. In short just so, after this manner, there are *TEN Months* required to form and mature the *MAN*, in the substantial *Completion* of *THESE* to Perfection.

BUT, after All, lest I should be thought, by this way of Reasoning on the *Numbers* of the *MONTHS*, to vend some fictitious *Notions* for mechanical *Causes*, or vain *Fictions* for the *Laws of Nature*, I shall in this Place, to avoid that Censure or Reproach, make a small *Digression*, and that upon *NUMBERS* in general.

FIRST then, I think it appears very Plain from the *Three preceding Chapters*, that *NUMBERS* are of a certain wonderful Efficacy and Virtue even in *SUPERNATURALS*.

SECONDLY, In *Natural Things* also the Virtues of *NUMBERS* (so *mystically* constituted and *mysteriously* intended) are conspicuously manifest: As is evident in the *Herb*, call'd *PENTAPHYLLON*, which is said to resist *Poisons* by Virtue of *Number FIVE*; as *one Leaf* of it taken *twice* a-day in *Wine*, cures the *QUOTIDIAN*; *three*, the *TERTIAN*; and *four*, the *QUARTAN Fever*. So likewise in the *Herb HELIOTROPIUM TRICOCCON**, *three Grains* whereof cures the *TERTIAN*: and *four*, the *QUARTAN Ague*. In like manner, as a *Serpent*, if struck *ONCE* with a *Spear*, *dies*; but if *TWICE*, is said to recover *Strength*. So much for the *Curious*.

HOWEVER, These and many other Things might be mentioned, both in *Natural*, and *Supernatural Beings*, upon the wonderful *Power* and *Efficacy* of *NUMBERS*: Which plausible *Doctrine* not only the most Eminent *Philosophers*, but also the most Learned *Catholic DOCTORS*, namely, *St. Jerom, Austin, Origen, Ambrose, Athanasius, &c.* All unanimously teach; as well as the most famous *Dr. Rabanus* (Archbishop of *Mentz*).

* *Plin. Nat. Hist. lib. 22. cap. 21.*

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who in his Time compos'd an excellent *Book* to this purpose chiefly upon the *Virtues* of Numbers.

BUT notwithstanding all This, I am far from believing that there is any peculiar *Virtue* in NUMBERS, considered *abstractedly*: Only, I would hereby demonstrate, that as the Omniscient CREATOR has appointed every thing a certain TIME for its Production, Augmentation, Perfection, Declension, and Duration; so in all probability, the same Decree or Good-Will of Divine Providence may have ordered NUMBERS, and Sett-Days or Times to concur with the apparent Necessity of Corporeal, Natural, and Mechanical CAUSES. For in Truth, at last, I cannot think that, unless there had been some great and distinct Mysterys of GOD and Nature comprehended in NUMBERS, the Great DIVINE * would otherwise have recommended That Search to the World of Understanding to count the NUMBER of the Beast: saying, *It is the Number of a Man*. But to proceed:

C H A P. XXXVII.

Of an Eleven-Months, and all posteriour BIRTHS.

AS to this MONTH, many Authors † agree to legitimate its BIRTH; because of several repeated Instances that really happen'd in their Days: To which I can add ONE of my own proper Experience, during my itinerant Practice in the City of Prague. Where, as I came recommended to the Acquaintance of some Eminent Physicians of the Place, I happen'd once to be call'd (by one of them)

* Revel. xiii. 18.

† Plin. lib. 7. cap. 5. Gell. Noct. Attic. lib. 3. cap. 16. Cardan. lib. 1. tract. 3. cont. 8. Amat. Lusitan. Cent. 1. curat. 27.

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to a *Lady* in *LABOUR*; whom I had the good Fortune to deliver immediately, of a fine, lusty, and lively *Girl*. After which, I had the Honour to attend her in *Child-Bed*; I mean, to visit and prescribe for her, by the concurring Advice of my Honoured *Friend* (the most Learned and Ingenious *Dr. Von Overberg*, who was her near Relation) in order to prevent some *Disasters* under which she had formerly suffer'd on the like Occasion. Upon This, she was pleas'd to tell me out of her own Mouth, that, before the *Day* of her *DELIVERY*, her *Husband*, (who was a *Colonel* in the Imperial Service) had been gone to the *Army*, then in *Sicily*, *TEN MONTHS* and *two Days*; so that this *Proculean CHILD* was born (at soonest) the *Third Day* of the *Eleventh Month*. And in this *Case*, I dare say, I was no-ways mistaken, or impos'd upon; that *Lady* being endued with no less true *Honour* and strict *Virtue*, than she was otherways deservedly esteem'd, of a singular good *Character*, and great *Distinction* in that Place.

UPON which happy Occasion, I was the first Time fully satisfy'd, and convinc'd, as to the due Proportion and Distinction of the *Four controverted Terms*; viz. that, by how much the *latter Part* of the *TENTH MONTH* is preferable to the *Beginning* of the *NINTH*; by so much is the *Beginning* of the *ELEVENTH*, preferable to any *BIRTH** happening in the *latter Part* of the *SEVENTH MONTH*: So that, upon the whole Matter, I can find no plausible Reason why All *Those* may not be accounted *Legitimate Terms* of Time in *Child-Bearing*, as well as the *latter Part* of the *NINTH*, and *Beginning* of the *TENTH MONTH*.

WHICH probable Opinion we may the more readily agree to, and acquiesce in; especially because (if what has been said of the rest of the *PLANETS*, in the respective *Chapters* of *This* and the *First SECTION*, be true) the *SUN* in this *ELEVENTH MONTH* returns to take care of the *INFANT* (yet unborn;) by virtue of

* *Aristot. 7. de Nat. Animal. 4.*

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whose vivacious *Influence* and beneficent *Quality*, *BIRTHS* of this *MONTH* are accounted no less *vital* and *successful*, than any *others* differently time'd.

THERE are also many *Authors*, over and above, who make mention of *BIRTHS*, in the *Twelfth*, *Thirteenth*, *Fourteenth*, and *Fifteenth MONTH*. Yes verily, and there is *one remarkable Instance*, of the *Physical College* at *Montpelier*, where a grand *Consultation* was held about the Year 1590, in *Favour* of a certain *MARCHIONESS*; who (after some fair *Legitimate BIRTHS*) had *Two** running successively, the *one* in the *Eighteenth*, the *other* in the *Twentieth MONTH*: upon which, divers curious *Reasonings* happened, and various *Sentiments* were deliver'd. However, because such *Precedents* are so very few and uncommon, I shall take up no more *Time* about them. Only

AS to what is said in this, and the preceding *Chapters*, touching the *Months*, I desire to be understood, as meaning *Solar*, not *Lunar Months*: By *Solar Months*, I mean that *Space of Time*, which the *Sun* continues in either, or every, *Sign* of the *Zodiack*, comprehending thirty *Days*.

BUT it may (perhaps) be objected, that the *Antients* (especially the *Greeks*) reckon'd their *Years* by *Lunar Revolutions* only, and had none else but *Lunar Months*. To which I answer, that the *Wise* and *Divine HIPPOCRATES* computes † the *Time of Birth* by *Decads of Weeks*; which *Decad* contains *Seventy*, as every *Week* consists of *Seven full Days*: Hence *He* makes out the *Legitimacy* of a *Seven-Months Child*; because that *Term* comprehends *three Decads of Weeks*, or *210 Days*: And hence it is evident, that he has measur'd that *Time of Gestation* by *Solar Months*, of which each contains *30 Days*, answering alike in *Births* of all *Months*. For if we divide those *210 Days* by *7*, for the *Number of Months*, we shall find a *Quotient* of *30*

* Senerr. lib. 4. p. 2. S. 6. cap. 1.

† Lib. de Carnib.

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Days to each ; or if we multiply 30 by 7, we'll find a *Product* of 210 Days in all. And this *Computation* he farther elucidates, saying *, *As thirty Suns form the Fætus, so seventy move it, and two hundred and ten perfect it.* Hence it is evident and certain, that HIPPOCRATES also considered and regarded the *Circuits* of the *Sun*. Which leads me farther, to



C H A P. XXXVIII.

Of the Reasons why ONE Number of Months, Weeks, and Days, is more Auspicious to BIRTH, than ANOTHER.

WHAT has been said in the *Seven preceeding Chapters* particularly, concerning *Months, Weeks, &c.* leads me directly to descant upon *THE SE* in general: Which *Topick*, tho' I could willingly resign it to the more *Judicious* to enter upon, and recommend to the more *Learned* to discuss ; yet lest I may be thought to evade or omit any material *Point* which I have undertaken, I shall endeavour (according to the Best of my weak *Capacity*) to explain, *en passant*, and to unfold this *Mystery*, by declaring the most plausible *Orthodox Reasons* why *ONE Number of Days, Weeks and Months, is more Auspicious to the BIRTH*, and affords more *Vitality* to the *CHILD* than *ANOTHER*.

IN handling of which *Subject-Matter*, as I propose to be very *Brief*, so I shall only observe in short, that such *Reasons* are chiefly founded upon a *double Principle* ; That is, of daily *Experience*, and natural *Knowledge*.

I. UPON daily *Experience* ; in that it is notoriously well known that *CHILDREN* born in *different Months*, are not equally *Vital* or *Lively* ; and in that it is evidently manifest, that the *7th, 9th, and 10th*, and perhaps the *11th Month* also, are endued with some certain *Virtues*, and prevalent *Qualities* before all *OTHERS* in this Case.

* Lib. de Alimento.

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II. UPON Natural Knowledge ; infomuch that it is the Opinion of all Judicious *Naturalists* (either *Philosophers* or *Physicians*) that this *inferiour World* is moved and govern'd by *superiour Bodys*, and that all *Terrestrial Vicissitudes* and *Changes* depend upon *Celestials*, and those chiefly upon the SUN and MOON : which both possess great *influential Virtues*, and exercise great directing *Powers* over all *Inferiour Bodys*. From hence the *Antients* always maintain'd, that the *Periodical Accessions* and *Circulations* of many *DISTEMPERS* depended entirely on their noxious *Influences* ; especially upon that of the MOON, because of her *Proximity*.

NAY, some *Authors* have advanced so far, as to ascribe the only *Cause* of them to the *Powers* of the STARS and PLANETS. But tho' I am no ways to countenance *These Notions* to this ridiculous Length, nor in the least to defend the vain *Fictions*, or foolish *Ostentations* of the vulgar *ASTROLOGERS* ; yet I shall make no scruple to assert that both the STARS and PLANETS are concurring or co-operating, tho not sole *efficient Causes*, in these *Cases* : And This, I hope, I may rationally be allow'd to do, supposing I had not the direct *Authority* of such a Great Man, as the most Learned and Excellent Dr. Mead *, over and above to back me ; who says, “ It is moreover to be consider'd, that the rest of
“ the STARS and PLANETS have each their Power and In-
“ fluence, which tho' they be not Equal to that of the SUN
“ and MOON ; yet notwithstanding they conspire to augment
“ or diminish their Powers on human Bodys ; and this Con-
“ course is of so great Consequence (says this Eminent Au-
“ thor) that we must refer to it the sudden and hidden
“ Power of most Distempers in all Countries, &c.

BUT the Powers of the two great and glorious LUMINARYS, we are more sensible of, as they are more manifestly conspicuous ; and *These* we may in many other *Cases*, (as well as in *BIRTHS*) hold for *efficient Causes*.

* Lib. de Imper. Solis & Lunæ, cap. 1.

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FOR who knows not that the Influence of the SUN fructifies all sorts of *Grain*, and ripens *Fruit*, *Corn*, &c? Who knows not that by its *Force* or *Influx* only, divers *Animals*, *Insects*, &c. engender and spring out of the *Dust* and the *Earth*? Or, who knows not that its *Power* prompts all *Creatures* to *Coiton*, and excites them to propagate their respective *Species*, each one its own *Kind*, &c.

NEITHER is the *Influence* of the MOON less evident: For does it not change the *Constitution* of the WEATHER, raise the AIR, heighten the WINDS, swell and exagitate the *Surface* of the SEA, and finally, augment and increase the very *Tides* of the OCEAN? Do not all *Animals*, as well as the *Menstruous* and *Pregnant Woman* sensibly feel the *Power* of the LUNAR *Influence*? Yes verily, as my last quoted *Author* justly * observes, *unless their REGIMEN be perverted, by which means the Body may be disqualify'd or rendred unapt to receive the Impression.*

NOW this does not only happen to *Four-footed Beasts*, and all that possess the dry LAND; but also more especially to the *Inhabitants* of the SEA: And And how remarkable is it, that the very *Shell-Fish*, (how closely soever shut up, and how low soever buried, as it were, in the very ABYSS of the *Deeps*) cannot be exempted from the sensible *Impression* of this LUNAR *Power*? To this Point and Purpose (I think) *Lucilius* †, that Learned Poet, manifestly alludes, saying,

“ *Luna alit Ostrea, & implet Echinus, Muribus*
“ *Fibras & Pecui addit.*

And after Him, *Manilius* ‖, that great *Astronomer*, writes à propos upon this Topick, when he says,

“ *Sic submersa fretis Concharum & Carcere clausa*
“ *Ad Luna motum variant Animalia Corpus.*

* Cap. 3.

† Apud Aul. Gell. lib. 20, cap. 8.

‖ Astronomic. lib. 2.

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THESE Things then being evidently so, and it being a most certain and undeniable *Truth*, that the SUN and MOON have each their respective *Influence* upon all *Inferiour Bodys* : (as has also been already shewn in *Sect. I. Chap. 8.*) I come now to observe that such *Mutations* as are *Quick* and *Brief*, or such *Changes* as are accomplished in a *Few Days*, may be entirely ascribed to the *Power* of the MOON : As in the *Reverse* of these *Cases*, which cannot be determin'd under a *Long Time* ; the *Course* of the SUN is more chiefly to be consider'd and principally regarded.

SO *Acute Fevers* (because *SHORT*) are generally assuaged and dissolved in 14 *Days* : Whereas *Quartans* (because *LONG*) on the contrary are only determin'd in *six Months*. It's true indeed, the *Antients* ascribed these *Laws* of NATURE, to *Pythagorean Numbers*, and distinguish'd the *Times* of FEVERS according to their *Critical Days*, which they strictly animadverted, as they laid great *Stress* upon that Ceremonious Observation.

HOWEVER, *Galen* made a far stricter *Disquisition* in this Matter, and conceiv'd (as the *Truth* indeed is) that the *Accessions* and *Crises* of FEVERS had no *Connexion* with any NUMBERS or odd Days, but took *Origin* only from the *Efficacy* of the MOON : (as is more fully explain'd in *Chap. 28.* of this *Section.*) According to which *MAXIM**, *Acute Distempers* have their *Circulations* in *Seven Days*, and take their *Accesses* and *Declinations* from the *Course* of the MOON ; which every *Seventh Day*, when *NEW*, *HALF-FULL*, or *FULL*, has her greatest *Influence*.

HE farther observes that the *Quarter-Day* of the MOON may fall upon the 6th or 8th Day of the DISTEMPER, and consequently either of these Days may determine it as well as the *SEVENTH*. For (according to *Dr. Mead's* excellent Judgment) the *Dissolution* of a FEVER sometimes happens *To-day*, which according to the ordinary *Course* of the DISTEMPER ought to happen

* De Dieb. Decretor. lib. 3.

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To-morrow; or, on the contrary, the *same* may be procrastinated till *To-morrow*, which might be expected *To-day*: And *That* for the various *Reasons* * most ingeniously by him alledg'd and irrefragably established.

IN fine, such *Mutations* and *Circulations* of Things as are perfected and perform'd in a few *Days*, are directed by the *Property* of the *MOON*: whereas such *Changes* and *Alterations* as require the *Dissolution* and *Determination* of *Months*, refer only to the *Government* of the *SUN*. Which I would have thus candidly understood, viz.

AS from the beginning of the *Month* to the *FULL-MOON* are almost 14 *Days*, which accomplish half the *Lunar Circuit*, and comprehend two *Quarter-Changes*; so from the Beginning of *Spring* to the End of *Summer* are six *Months*, which comprehend two *Seasons* or half of the *Year*: And so that *Mediety* or *Half* of the *Month*, from *FULL-MOON*, to the Time of *Occultation* or *NEW-MOON*, answers to the other six *Months*, from the beginning of *Autumn* to the last of *Winter*, which conclude the other *Half* of the *Year*.

FOR as we divide the *Course* of the *MOON* by 4 *Weeks*, according to its 4 quarter *Changes*; so we distribute the *Course* of the *SUN* into 4 *Stations*, according to the four *Seasons* of the *Year*: Hence it is that all *Times* of the *Year* answer in proportion to the different *Weeks* of the *Month*, and all *Stations* of the *SUN* (in like manner) to the different *Changes* of the *MOON*. Wherefore as the 7th *Day*, which is the 4th Part of the *Lunar Month*, determines acute *Distempers*; so the *Change* of the *Season* of the *Year* dissolves *Diuturnal Diseases*. The *SPRING* commonly shakes off any *Malady* generated in *WINTER*, as the *SUMMER* does what is begun in the *SPRING*; and the *AUTUMN* discusseth any *Affection* excited in *SUMMER*, as the *WINTER* does what happen'd in *AUTUMN*.

* Cap. 2.

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THESE Things being thus cleared-up by the way, we have now only to consider, that the Time of *GESTATION* is no *Acute*, but a *Diuturnal Effect*; and that *BIRTH* is nothing else but the *CRISIS* of the same *Affection*, according to * *Hippocrates's* Sense. Which, if so, it is evidently manifest that, in defining the Time of *BIRTH*, we ought chiefly to regard the *Course* of the *SUN*, and strictly observe the *Number* of *MONTHS*; However so, as not to neglect the *Motions* of the *MOON*, and consequently, we ought also to consider duly the neat *Number* of *DAYS*; Wherefore (I say) in *BIRTH* we are to have a just Regard to, and take a strict Observation of, not only the *Changes* of the *MOON*, but also of the *Mutations* of the *SUN*; because both the *One* and the *Other* act very powerfully in *BIRTH*. Which I thus beg leave to illustrate as follows, viz.

AS the *first seven Days* have the greatest Power of determining *Acute Diseases*, so the *first three Months* of *GESTATION* (which answer to those Days) determine the *CONCEPTION*: And as of those the *7th Day* is the most powerful, so of these the *third Month* is the most prevalent. From hence it is that the *FOETUS* suffers such manifest *Alterations* and *Changes* of Nature in this *MONTH*: For it is now metamorphos'd or chang'd from an *Inanimate* into an *Animate Being*: It now becomes a *Living and Moving Body*, subsisting henceforward by its own proper vivacious *Faculties*; yet not so however, that *this MONTH* can be presum'd to produce a *vital Birth*: No, because as every perfect and plausible *CRI-SIS* of the *7th Day*, requires the *Concurrence* of the digested *Humour*, together with the *Ability* and *Strength* of the *PATIENT*; so in *BIRTH*, the *Disposition* of the *INFANT* must necessarily concur with all These, which it can never be suppos'd to do in the short Space of *Three Months*.

* Lib. de Septimest. Part.

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MOREOVER again, as the *Days* of the Interval from the 7th to the 14th, have but small Power in dissolving *acute Diseases*; so neither have the 4th or 5th Months (which assimilate *these Days*) any Efficacy tending to BIRTH. Wherefore if an unlucky Ejection of the FOETUS happens in *these Months*, it can be no otherwise judged of, than as when *Symptomatical* (not *Critical*) Excretions fall out on DAYS not *Decretory*: Hence we (of consequence) may collect, that the very First Time, in which a *legitimate Term* can be suppos'd to concur effectually, together with the Disposition and Strength of the INFANT, in case of BIRTH, will be (as Hippocrates has well observed *) about the 182^d Day, or at the half Year's End: Which (however) he calls a *Septimestrian BIRTH*, because the *Ancients* reckon'd their Year by *Lunar Months*, as they did their Months by the Course of the MOON; whereof 13 with some Days of the 14th Month constitute the *Solar Year*: Not that I mean they in the Interim were at all ignorant of the *Solar Periods*. And however, tho' this Number of 182 Days make but up six *Solar Months*; yet, as it comprehends seven *Lunar Months*, and almost constitutes three DECADES of *Lunar Weeks*, there can be no Repugnancy in that *Wise Man's Meaning*, whatever some literal Interpreters may imagine to the contrary.

NOW this sixth Month being the second *Solar Mutation*, in it the WOMB begins to be more severely oppress'd with the Weight and Bulk of its Burthen; for now the INFANT has assum'd Perfection, and (perhaps) got Strength sufficient to undergo its Fatigue in LABOUR, and Power enough to support Life, after its BIRTH; especially if procreated of the more vivid, valid, or excellent SEED; whose powerful Faculty and vigorous Quality may perhaps have perform'd the Work of Formation in 30, which otherwise would require 35, or more Days: In this Case (of consequence) the BIRTH

* Lib. de Septimest. Part.

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will succeed at the above-mentioned *happy Time*; as appears more amply from what has been already set forth in SECT. I. Chap. 9.

NOW from what has been said, I hope it appears highly reasonable to compute the *legitimate Time* of BIRTH, not only by *Months* and *Moons*, but also by *Weeks* and *Days*: Which however yet, I look not upon to be any very full, exact, or sufficient satisfactory *Calculation*; because (I think) we have also just Reason to compute this *Time* even by *Hours* and *Minutes*. Therefore how just soever *Aristotle's* Observation (mentioned by *Pliny**) may be, that no *Animal* expires but in the *Reflux* or *Ebb* of the *Sea*; I am yet positive, that *Monsieur Paschal's* Notion (mentioned by *Doctor Mead*†) that all *Births* as well as *Deaths* fall out in the *Reflux*, and that no *Animal* is born or dies in the *Flux*, may be rationally controverted: For I must needs assert that, without any regard to his *Senarian Fluxes* and *Refluxes*, BIRTHS happen at every *Hour* of the DAY or NIGHT: and perhaps more naturally too in the FLUX, than in the REFLUX of the *Sea*. And this, I think, may appear evident, even from the self-same Reasons by which he endeavours to make out the Contrary||; namely, that intermitting *Fevers* have their greatest *Paroxysms* in the *Time* of the FLUX, whereas they cease in the REFLUX by *sweating*: collecting from hence, that the *Motion*, *Vigour*, and *Force* of *Distempers* are chiefly advanc'd in the *Senary* of the FLUX; and on the contrary, that they are dissolved in the *Senary* of the REFLUX. Which Observation, with respect to *Fevers*, this most excellent *Doctor* has found experimentally** True, as a great many others have also done.

BUT in the *Case* of a *Woman* in LABOUR, as (with Submission) I judge the *Paroxysms* to differ from the Nature of those in a *Fever*, so I humbly conceive that

* Nat. Hist. lib. 2. cap. 98.

† Cap. 2.

|| Philos. Transact. Numb. 202.

** Cap. 2. de Imper.

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the *Effect* must prove the REVERSE. For the *Paroxisms* in BIRTH, are nothing else than the *Pains* or *Pangs* of LABOUR; and who knows not that (in Case of a *natural Situation* of the *INFANT* and the *WOMB*) the greater *These* are, the more *Success* and *Expedition* attends the BIRTH? And who again knows not, that in this Case, the more vigorous *Motion* the *INFANT* makes, and the more *Force* and *Strength* that attends the *Pains*, the sooner the DELIVERY is perfected? Which, of consequence, according to his own Opinion, will fall out in the *Senary* of the FLUX? In fine, again I farther observe, that, as the REFLUX may be the appointed Time of Nature destinated to *Death*, so may the FLUX be allotted to BIRTH; which (in my Mind) is as opposite to *Death*, as the FLUX is to the REFLUX of the *Tide* of the Sea.

WHEREFORE I am obliged to repeat it again here, that we ought to calculate the *Legitimate Time* of BIRTH, not only by *Months*, *Weeks*, and *Days*, but perhaps also by *Hours* and *Minutes*; and that because, according to the Great *Galen's* Observation*, as the *Year*, *Month*, or *Week* does not consist of entire *Days*, so neither does the DAY of entire *Hours*: For as the *Year* consists of 365 *Days*, six *Hours*, and a few *Minutes*; and the *Month* of thirty *Days*, ten and a half *Hours*; and the *Week* of seven *Days*, two *Hours*, and twenty-seven *Minutes*; so the *Day* (in proportion) consists of 24 *Hours* and 21 *Minutes*: From whence I conclude (with that wise *Man*) that we can make no very nice *Computation* in this Affair, by *full Days*, without FRACTIONS.

WHEREFORE it is that the most Learned and Inquisitive *Boethogynists*, or *Female Physicians* maintain, that they have always observed their WOMEN to bring forth the self-same HOUR of the *Night* or *Day*, in which they conceived: And *This* also daily Experience seems to confirm for *Truth*; because it is certain, that most BIRTHS happen in the *Night-Time*, or *Dawning* of

* 3 Crit. 9.

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the Day; at which *Times*, we may very propably suppose the Generality of *Parents* to be most employ'd that way: Whereupon, if This be True, Mr. *Paschal's* Position will fall of course; and then that *Assertion* of a *Legitimate BIRTH's* requiring, not only a certain and prefinite Number of *Days*, but also of *Hours* and *Minutes*, will more rationally be establish'd in its Room: Notwithstanding that Saying of *Hippocrates* * himself, after having distinguished upon the *Times* of *BIRTH*, *That these Things fall out in a few Days more or less.*

HOWEVER, in fine, from what has been said, (I hope) the *Reasons* I have given here, why *one Number* of *Months*, *Weeks*, and *Days* is more auspicious to the *BIRTH*, and more fortunate to the *CHILD*, than *another*, are by this Time made manifestly clear and self-evident. Now these Things being thus briefly accounted for, I must proceed in the next place (with the *READER's* good Leave) to provide for and prepare the *Pregnant Woman*, against the *Expiration* of these *Months*, *Weeks*, and *Days*.



C H A P. XXXIX.

Of the DIET and REGIMEN of the Woman, before and about the Time of BIRTH.

TH^{O'} the *Woman* ought to be cautious of her *DIET* and *REGIMEN* during the whole time of *Pregnancy*, as advis'd in *Chap. 3.* of this *SECTION*; yet she is now oblig'd in the *first place* (especially from the beginning of the *9th MONTH*) to be much more circumspect; to use nothing but Food of good *Nutri-*

* Lib. de Alimento.

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tion and easy Concoction, of an *Aperitive* and *Laxative* Quality, little at a time, but frequently taken.

II. SHE ought to *stir* often, and exercise herself moderately, without *stooping* or *bending* the Body too much, lest the *UMBILICALS* may entangle the *Infant*.

III. SHE should discreetly rest herself at certain Times, and indulge herself in composing *Sleep*; lying altogether on her *BACK*, not on either *Side*, that the *INFANT* may freely turn itself.

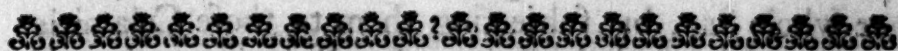
IV. FROM the *tenth Day*, proper *Emollient* and *Laxative Decoctions* by way of *BATHS*, may necessarily be used twice or thrice a *Week*, for moistening the *Passages*, and facilitating the *BIRTH*: Or otherwise, the *BELLY* and proper *Parts* need only be fomented with *Cloths*, or *Spunges* dipp'd in such *Decoctions*, and the neighbouring *Places* anointed with apposite *Liniments* or requisite *Ointments*: But no *Laconick* or *Sweating BATHS* or *BAGNIO's*, ought to be used at this *Juncture*; notwithstanding some contrary *Opinions*.

V. THE *Infant* is to be cherish'd, and strengthen'd by proper *Cordials* inwardly taken, as well as by outward *Applications*.

VI. THE *Room* or *Chamber* in which the *Woman* is to undergo her *TRAVAIL* and *Lying-In*, ought to be conveniently *temperate*, neither too *cold* nor too *hot*: By reason that the *one* certainly constringes and shuts the *WOMB*; as the *other* dissipates and debilitates the *Spirits*.

In short, I have known *Women*, who have often had most painful, lingering, and laborious *BIRTHS* before; to have been *LAI'D* afterwards with the greatest *Ease* imaginable in a very short time, by only carefully observing the *above-prescrib'd REGIMEN*. Wherefore I shall take leave to go on farther, to

C H A P.



C H A P. XL.

*Of the Natural Causes of BIRTH, and Pains
of LABOUR.*

THE Causes of a *Legitimate* or timely natural Birth, are chiefly *Three*; viz. I. The suppressed or defective *Respiration*, by the encreasing *Calidity* of the *HEART*; which defatigates the *INFANT* so much, that it cannot live without more free *Ventilation*.

II. *PENURY* or *Scarcity* of *ALIMENT*; the *INFANT* now requiring *More* than it can possibly imbibe from the *Mother*; and therefore it is forced to seek, what *Nourishment* it farther requires, *Elsewhere*.

III. *T*HE strict *CONFINEMENT* of its narrow *Lodging*; the *WOMB* being now too little to accommodate and entertain the well-grown-*INFANT*: Like to the *YOUNG* of *Birds* or *Fowls*; which neither finding sufficient *Aliment* nor *Room* in the *EGG*, restlessly seek for *Both*, and in vain endeavour for *Either*, until at last they break the *Pellicules*: Which as soon as the *Mother* perceives, she scratches or pecks the *Shell*, and so brings out the oppressed indigent *CHICKEN*. Thus also in the *WOMB*, it happens not unlike; for, when the *Membranes* break, the *Humours* and *Blood* flow plentifully; and upon this *Occasion* various *Pains* afflict the *Woman*: Which are always the greater and more severe in the *First BIRTH*; because of the *Coarctation* of the *Passages*, besides the *Party's* being unaccustomed to such sorrowful *Griefs*, and penetrating *Pains*.

NOW the *Reasons* why *WOMEN* only, are so much afflicted with dolorous *Pains* in *BIRTH* (the rest of the *Creatures* being in a great measure of *Proportion* exempted from them) ought, as some *Divines* would have us believe, to be ascribed only to the *SIN* of the *First*

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Woman; GOD resolving (for that Reason) to punish her whole SEX, by subjecting them to those Calamities mentioned in the holy Scripture*: “*I will greatly multiply thy Sorrow, and thy Conception; in Sorrow thou shalt bring forth Children, &c.*”

BUT besides this *Doctrine*, I conceive there are Four very considerable *natural Causes* that may be reasonably assign’d for it; viz.

I. THE *DEBILITY* of *Human Nature*, which in Time of *Labour* requires sometimes the whole *Strength* of the *WOMAN*, and sometimes that of the *INFANT* too; and that commonly above what *Either* can well afford.

II. THE dull *Sedentary Life* which *Women* generally lead and indulge themselves in; as appears plain from what I have often observed in *Germany* and *Holland*: For the *Women* of those *Countries* generally accustoming themselves to some sort of active *Labour* and industrious *Exercise*, have much easier *BIRTHS* than any *Others* that I know.

III. BUT one general and universal Reason of it is, that the Bone call’d Os *Coccygis*, which is loosely join’d to the inferiour Extremity of the Bone call’d *SACRUM*, bending outwards during the Time of *LABOUR*; as the *CHILD* advances, its Head presseth the Gut call’d *RECTUM* hard against it; which causeth most severe, acute, and extreme *PAINS*.

IV. ANOTHER principal and universal Reason of it, is, the Bulk of the Head of the *INFANT*, which (according to *Albertus Magnus*) is equal in the time of *BIRTH*, to the rest of the *Whole Man*; causing a violent *Dilatation* of the *WOMB*, that is very strait in comparison of this *BULK*; and That being a very sensible *Membranous Composition*, This must (of Necessity) occasion most grievous and almost intolerable *PAINS*. Whence I come to

* Genes. iii. 16.

C H A P. XLI.

Of the CAUSES of a sooner, or later
BIRTH.

MANY great Men have written and answer'd promiscuously on this *Head*, suggesting a vast Variety of *Reasons* for it: But as *Every One* is left to think and judge the Best he can for Himself, so I shall (in this place) only animadvert upon *Those Causes*, which I most entirely approve of; and as they are *Five-fold*, so I think, they either depend upon the *Genital Seed*; the *Formative Faculty*; the *Temperature* of the *WOMB*; the *Constitution* of the *WOMAN*; or the *Influence* of *superiour Bodies*.

I. **THE** *natural Cause* may depend upon the *SEED*: Because as there is among *GRAIN* several sorts, some of which fructify and ripen in *Three*, some in *Four Months*, and others which require much *longer Time*; so it may be also in *human SEED*, that it may differ as much in its Kind. Which Truth is very evident from what has been frequently observed, that *Women* bring forth the *Children* of different *FATHERS*, at different *Times*; whereof I shall only mention the remarkable Instance of *Vestilia**: who was thus deliver'd of *Three Children* to her *Three several Husbands*, *HERDITIUS*, *POMPONIUS*, and *ORSITUS*, all noble Citizens of *Rome*: viz. Of the one in the 7th, of the other in the 11th, and of the last at the Expiration of 8 Months.

II. **THE** *natural Cause* may also depend upon the *FORMING FACULTY*; so far, as the *Formation* and *Perfection* of the *FOETUS* depend upon its *Strength* or *Debility*: For as it may be evidently observ'd after the

* Plin. Nat. Hist. lib. 7. cap. 5.

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BIRTH, that *some Children* grow a-pace and very suddenly; *others* (because of a *sickly Constitution*) thrive but very little, and grow slowly; so it happens also with the *FOETUS* in the *WOMB*: for the *stronger* that this *Faculty* is, the sooner *Formation* is perfected, and consequently the sooner the *BIRTH* follows successfully.

III. *THE Natural Cause* again may depend upon the *Temperature* of the *WOMB*: Because that the *Woman* (being the only one of all *Creatures* which tolerates *Copulation* during the time of *Pregnancy*) may be, by its frequent or immoderate *Use*, disorder'd in that noble *Part*; which may infallibly confound and pervert the regular *TIME*. For as the *Buds of Vines* cherish'd in the Bosom of the *Earth*, may be easily cut or dissipated by the *Plough*; so as at least to alter the *TIME of Fructification*, if not quite to destroy *Them*: So it is not very unlikely with the *INFANT* in the *WOMB*; and therefore wise *Nature* (solicitous of *Propagation* and *Preservation* of the *Human FOETUS*) will not allow that a *Woman* should have one precise *Time of BIRTH*.

IV. *THE Natural Cause* may also depend upon the *Constitution* of the *MOTHER*, so far as her *Habits* of Body, and *Way of Living*, are conducive (or not) to the *Maturation*, *Perfection*, *Strength*, or *Debility* of the *INFANT*.

V. *AND* finally, the *Cause* may depend upon a *superiour Influence*, in so far that, as we see with our *Eyes*, such *Grain* as is sowed, and such *Plants* or *Trees* as are planted in the *Interlunium*, or *silent Moon*, and before *Full-Moon*, to fructify and ripen sooner than others: Or, as we see and perceive our very *Nails* and *Hair* which are cut in that *Time*, to grow faster and sooner, than what is so cut after the *Full-Moon*: So we may as easily comprehend by our *Reason*, that these *Times* may have the same *Natural Effect* in the * *Human Seed*. And as then the *Parts* are more *Succulent*, and the *Ge-*

* R. à Cast. de Nat. Mul. lib. 4. cap. 2.

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nerative Virtue more excited, not only in the *Human Seed*, but also in all other *Seeds* and *Roots*, what wonder is it, that the *Womb* be also more efficacious and prestant at the same *Conjuncture*?

This I take to have been *Pliny's* † Meaning, saying none are *born* in the 7th Month, but they who have been *conceiv'd* in the very *Change* of the *Moon*, or within a *Day* of it, under or over. Hence I may justly observe, that all *flower Births* have been begotten at opposite Times; for which, I think, I have also sufficient Authority from * *HIPPOCRATES* himself, saying, when a *Woman* conceives after *Full-Moon*, that *Conception* must, of Necessity, reach the 11th Month.

HAVING thus far (according to the Best of my Judgment) dilucidated these *Cases*, and having hitherto conducted the *Woman with Child*, and brought her safe this Length, thro' all the *Difficulties* she has been expos'd to, and the many *Hardships* she has met with in her *Gestation* or *Bearing-Time*, to the compleat Number of her MONTHS, or precise Time of her LABOUR: It remains now, that I should also direct her Safety upon that emergent Occasion; since if we should now lose our good and fruitful *Woman* at last, all our previous Pains and Care have been Labour in vain, and nothing but Frustration. But, because the Work of DELIVERY, does not always depend upon the *Woman* herself, and but seldom in these *Countries*, upon the *Physician*; before I commit her to the Hands of the rude or unskilful, (whether MAN or WOMAN-MIDWIFE) I shall in the next Place, (with all due Defe-
rence to my SUPERIOURS, especially the eminent Professors of Physick, and Practisers of MIDWIFERY in the City of LONDON) endeavour to instruct such Persons in the Fundamentals of their ART, and to qualify them with the necessary Knowledge, and indispensable Duty of their BUSINESS.

† Lib. 7. Nat. Hist. cap. 5.

* Lib. de O&timeft. Partu.

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IN fine, I shall attempt now to perform This Undertaking in the plainest and most succinct Terms following.



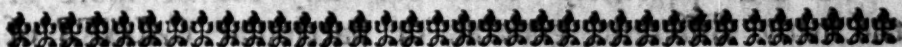
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IN

M



S E C T. IV.



C H A P. I.

Of MIDWIFERY.



BIRTH, and whatever may depend of, take Rise from, or have any antecedent, concomitant, or consequent Relation to it, is the only proper Business of MIDWIFERY, and justly deemed the common Boundary of the *Knowledge and Practice* of the MIDWIFE.

WHICH *Art* of MIDWIFERY is (in itself) as excellent and ingenious, as its *Practice* is useful, and absolutely necessary to the *Commonwealth*; insomuch that this will admit of no *Contradiction*, when we rightly consider the following few, but important, general *Heads*, to which I reduce it throughout this Work, *viz.*

I. THIS *Art* distinguisheth a *Fertile* from a *Sterile* or *Barren WOMB*; it supports and corroborates the *one*, and rectifies and cures the *other*, in most (if not in all) *Cases*.

II. IT distinguisheth an impregnated from an unconceived WOMB, a real from a false *Big-Belly*, and a natural from a preternatural CONCEPTION.

III. IT teacheth the *Regimen* of the conceived Woman, for averting the Severity of the SYMPTOMS of the several Months, and all acute Diseases, in order to strengthen the Infant, and prevent any MISCARRIAGE.

IV. IT instructeth by the Touch or Handling only, to discover, from time to time, the true State and Condition of the Conceived Woman, not only during the Time of Pregnancy, but also before and in the time of LABOUR.

V. IT immediately (in the beginning of LABOUR) discriminates a Natural from a Preternatural, and an easy and speedy from a difficult and lingering future BIRTH.

VI. IT presently discovers any one or more of the many different, general, or particular CAUSES of difficult or preternatural BIRTHS.

VII. IT informeth the fair Practiser how to remove and correct those CAUSES, and deliver the Woman, not at all by butcherly Instruments, but by Judgment and Help of HAND only.

VIII. IT sheweth not only how to extract dead Children, and sometimes MONSTERS, but also false Conceptions, Superfetations, Moles, &c.

IX. AND Lastly, this ART teacheth the true Regimen of the CHILD-BED-WOMAN, and her BABE, together with the proper Methods and Means of HELP in all Cases incident to them Both.

THESE Heads (I think) fully comprehend the whole Art of MIDWIFERY; And what can be more ingenious now? What can be more conducive to the common Good, or more serviceable to any Country, than the Preservation of the Health and Lives of its multiplying WOMEN and CHILDREN?

THIS Art has been in such Esteem among the ANTIENTS, that it was (in all Ages) the Study of the most Learned PHYSICIANS; tho' its Practice succeeded best only, first in France, then in Italy, and afterwards

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in Germany. For in these Countrys their *Women* of all Ranks (the most Precise and Virtuous) have accustom'd themselves (upon this Occasion) to lay aside all *childish Bashfulness* and *imaginary Modesty*, in order to secure their *Own* and their *Childrens* Safety, by inviting the Assistance of both *SEXES*. And indeed *MEN* (whom I may justly call the truest and best *Boethogynists*) being better versed in *Anatomy*, better acquainted with *Physical Helps*, and commonly endued with greater *Presence of Mind*, have been always found readier or discreeter, to devise something more *new*, and to give quicker *Relief* in Cases of *difficult* or *preternatural BIRTHS*, than common *MIDWIVES* generally understand; By which means it comes to pass, that this *ART* is now brought to its greatest *Perfection* in these *Countries*: Insomuch that, if I might be allowed to adopt a *new Term* into our Language, instead of *MAN-MIDWIFE*, which seems to be a Contradiction in *Terms*, I would call him the *ANDRO-BOETHOGYNIST*, or *Man-Helper of Woman*, for his excellent Skill in *MIDWIFERY*.

MORE OVER, the *Authors* of these *Countries* have not been remiss, in communicating their *Experience* and *Methods* taken to prevent and remedy the many various *Difficulties* which have occurred in this nice Affair. No, *Senertus*, *Rod. à Castro*, *Viardel*, *Mauriceau*, *Portal*, *Daventer*, *Bartine*, *Garofanzzo*, *Pfizerus*, &c. have promerited our immortal *Praises* as well as *Thanks*, for such famous and generous *Instances* as they have given of their great *Beneficence* to *MANKIND*.

THE *Four* latter have made vast *Improvements* of this *ART*: but particularly, the most Learned, Ingenious, and excellent *PHYSICIANS*, and *Men-Midwives*, (as vulgarly called) *Sig. Garofanzzo* and *Pfizerus* (my most honoured *Instructors* in this *ART*) have absolutely perfected the *WORK* begun by *others*; for their *Rules* are firmly founded on sound *Anatomy*, and their *Doctrines* are more extensive, particular, plain, and infallible, than all their *PREDECESSORS* Discoveries.

THEY

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THEY explain this *ART* upon firm *Mathematical Foundations*, and solid *Demonstrations* of Truth. Besides they give many new, and most necessary *Directions*, in regard to *Touching* or *Handling* of Women; whereby *MIDWIVES* may not only foresee all *Difficulties*, which can possibly happen, but also prevent them in due Time.

THEIR great *Ingenuity* and *Dexterity* in this *ART*, has (to the Glory of *GOD Almighty's* good *Providence*, and the Honour of their own *Profession*) rendred the *Use* of *INSTRUMENTS*, not only needless and superfluous, but also odious and ridiculous. They instruct us how to remedy the most difficult *Occurrences*, by a right *Understanding* of the Business, and a nice subtil skilful *HAND* only, without any manner of other *INSTRUMENT*; excepting only in the Case of a *MONSTROUS* or dead *BIRTH*.

UPON whose great *Authorities*, and the small *Knowledge* I myself have of the *Parts* of Generation, if I affirm the imminent and manifest *Danger* of such dilating *INSTRUMENTS*, as are commonly us'd upon every trifling Occasion, I hope it will not be taken amiss by the *READER*: Since my *Design* is not so much to discourage any in their *Practice*, as only to excite such *Practitioners* to apply themselves to the above-mention'd far more *Safe*, *Easy*, and *Commendable METHOD*: which if they shall think fit to do, the Excellency of the *Profession* will shine as bright *Here* as in *other Parts* of the World; and at the same time, the absurd *Imputations* and false *Suggestions* of the Ignorant (who imagine all *Women* to be deliver'd either by *CHANCE*, or by such barbarous *USAGE*) will be clean wip'd off: For (I am fully satisfy'd) that our *ART*, no ways depends upon *CHANCE* or *FORTUNE*, and running any *Risque* or *Hazard*; but (to the contrary) on as firm a *Foundation*, and as infallible *Rules*, as a great many *other Professions*, which however yet are sometimes subject to *ACCIDENTS*. All which I shall endeavour to make evidently appear, in the next *SECTION*; where I shall

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shall treat of the CAUSES of difficult and præternatural BIRTHS, together with the respective Methods of preventing, correcting, or removing them effectually.



C H A P. II.

Of the Qualifications of the Ordinary MIDWIFE.

IT is indeed indifferent whether *Men* or *Women* practise this ART, so the *Practisers* be properly adapted, and duly qualified for the Purpose of so great a WORK. As for Instance, in *France*, MEN only profess this Business; in *Italy*, and *Germany*, MEN and WOMEN promiscuously; in *England*, *Scotland*, *Holland*, &c. MEN are stiled Extraordinary MID-WIVES, being seldom or never call'd but in extraordinary Cases of difficult and præternatural BIRTHS. Wherefore, upon this Account, I shall first observe and denote the Qualifications most requisite and absolutely necessary for WOMEN practising this ART.

NOW as all Arts and Sciences require Instruction, Application, Pains, and Time, for qualifying any Person to become a MASTER in the Practice of them; so the ART of Midwifery requires not the least Regard, Attention, and Information. Wherefore it is quite wrong for any Persons, who have not a Body and Mind particularly adapted to this Business, to spend their Time in qualifying themselves for, and applying themselves to the Performance of this good Office. For such as These ought to leave This Province to THOSE Persons, whom Nature has more signally mark'd out for the Purpose.

A N D that I may the better distinguish upon what I have here propos'd, I shall first speak in the Negative, and then in the Affirmative Sense of the Affair; Or first, of her Natural, and then of her Acquir'd Qualifications.

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I. THEREFORE, *She* who would discreetly undertake MIDWIFERY, ought not to begin the *Practice* too YOUNG, nor continue it till grown too OLD: For the *one* will want, perhaps, due *Experience*, as well as decent *Gravity* and *Solidity*; the *other* will, peradventure, want requisite *Strength* and *Vigour* of Body, as well as the *Free Exercise*, and ready *Use* of her *Senses*.

II. SHE ought to be no *weak*, *infirm*, or *diseased* Person, incapable of undergoing the *Fatigues* which the *Business* too often requires: Such as *watching Night* and *Day*; turning the *INFANTS*, when in a wrong *Posture*; or extracting them at length; which *Action* frequently requires the full *Strength* of a strong *MAN*, instead of a weak *Woman*. For *thus* the most learned and excellent *Fabricius d' Aquapendente*, testifies of himself, that he has often been so *weary* and *tired*, that he has been obliged to leave the *Work* for his *Assistant* to finish; and as *Daventer* also (a robust *Man*) relates of himself, that in the coldest *Time* of *Winter*, being but thinly *cloathed*, and at a *Distance* from any *Fire*, his *Hair* has been wet, and all his *Body* in a *SWEAT*, and both his *Loins* and his *Limbs* have ached egregiously some *Days* after *delivering* a *Woman*.

III. SHE ought not to be too *Fat* or *Gross*, but especially not to have thick or fleshy *Hands* and *Arms*, or large-Bon'd *Wrists*; which (of *Necessity*) must occasion *racking Pains* to the tender *labouring Woman*.

IV. SHE ought not to be *lame* or *maim'd*, nor have stiff or crooked *Fingers*, *Hands*, or *Arms*; for these *Parts* are to be used in different *Manners* and *Postures*, even so that the *Success* of the *LABOUR* often depends upon their *Readiness* and *Agility*.

V. SHE ought not to be, *negatively* speaking, a *conceiv'd* or *Child-bearing Woman*; because *This* may be of bad *Consequence*, not only to the *labouring Woman*; (who depends on her, for more than she's able to *perform*, especially in a *strong LABOUR*) but also to the *conceiv'd MIDWIFE* herself, and her own *INFANT*.

VI. SHE

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VI. SHE ought not to be an *Ignorant, Stupid, Indolent*, or a *dull* Person; and especially not incapable of conceiving Matters distinctly, or judging of Things aright: Neither ought *she* to be a *Self-Indulger, Slothful, or Lazy*; nor a *Light, Dissolute, or Daring* Person: *She* ought not to be *inconsiderate, negligent, or forgetful*; nor *proud, passionate, or obstinate*: Neither *peevish, morose, or surly*; nor *fearful, doubtful, or wavering-minded*: neither ought *she* to be a *Tipler or Drunkard, nor a Tatler or Vagabond, nor a covetous, or mercenary* Person.

BUT on the other Hand, in the Affirmative, SHE (*First*) ought to be a *Woman of a good middle Age, of solid Parts, of full Experience, of a healthy, strong, and vigorous Body, with clever small Hands*: Since nothing can be more agreeable and conducive to the *Art of MIDWIFERY*, than *slender Hands, long Fingers, and a ready Feeling*.

II. SHE ought to be *Grave and Considerate*, endued with *Resolution and Presence of Mind*, in order to foresee and prevent *ACCIDENTS*; *Sagacious and Prudent* in difficult Cases, so as not to take *All* upon her own Shoulders or *Judgment*, but to have immediate *Recourse* to the ablest *Practiser* in the *ART*, and freely submit her *Thoughts* to the discerning *Faculty* of the more *Learned and Skilful*.

III. SHE ought to be *Watchful, Diligent, and Expert* in all Cases and Conditions that can or may occur; so that no *Opportunity* in the Beginning of the *LABOUR* be lost: Since I have more than once observ'd, that the *Neglect or Mistake* of improving a *critical MINUTE*, hath cost the *MOTHER* many violent or heavy *Pains* afterwards, and the *CHILD* also its *Life*. For which Reason it is of the greatest *Importance*, to nick the *Opportunity*, conformable to *Cato's Saying*—

Fronte capillata, post est Occasio calva.

IV. SHE ought to be a true *Fearer of God*, a *Conscientious* Person, of good *Life and Conversation*: Since Matters of the greatest *Moment* are committed to her
Care,

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Care, and depend entirely upon the faithful *Discharge* of her Duty: For *she* has the first and best *Opportunity* of shewing her *Compassion*, and *Tenderness* to Mankind, in this *Infant* and *Helpless* State. In short, CHARITY ought always to engage her, to be as ready to help the *Poor* as the *Rich*; the *LIFE* of the *One* being as *Dear* as the *Other's*, and the *Image* of *GOD* being equally stamp'd upon *Both*: For the ineffable *Recompence* of CHARITY far exceeds all other *Considerations* of trifling *GAIN*.

V. SHE ought to be *Patient* and *Pleasant*; *Soft*, *Meek*, and *Mild* in her *Temper*, in order to encourage and comfort the *labouring Woman*. SHE should pass by and forgive her small *Failings*, and peevish *Faults*, instructing her gently when she *does* or *says amiss*: But if she will not follow *Advice*, and *Necessity* require, the *MIDWIFE* ought to reprimand and put her smartly in mind of her *Duty*; yet always in such a manner, however, as to encourage her with the *Hopes* of a happy and speedy *DELIVERY*.

VI. IN like manner as she ought to be *Modest*, *Temperate*, and *Sober*, so she ought to be *Faithful* and *Silent*; always upon her *Guard* to conceal those *Things*, which ought not to be spoken of.

THESE, in fine, are the chief of the natural *Qualities* requisite for *MIDWIFERY*; from whence I come to the *Theoretical* and *Practical Part*, without which all *Others* are (in effect) *Nothing* to the *Purpose*.



C H A P. III.

Of the THEORETICAL and PRACTICAL Knowledge of the MIDWIFE.

SHE, who finds herself thus (properly) adapted both in *Body* and *Mind*, according to the *Rules* of the preceding *Chapter*, does a *Good* and *Laudable Work*,
if

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if she also studies to qualify herself well, first in the *THEORY*, and then in the *PRACTICE* of *Midwifery*.

WHICH, in order that she may most easily and accurately do, I shall reduce the whole *Theoretical Part* (absolutely necessary) to the following *Seven general Heads*; of Which she ought not only to have a general and superficial, but also a distinct, special, and perfect *Knowledge*; viz.

I. OF the *external* and *internal Parts* of *Generation*, and the *adjacent Parts*; together with a competent *Skill* of the respective *Substance* and *Nature*, *Connexion* and *Function* of each of *These* in the *Time* of *BIRTH*.

II. OF the *PELVIS*, or *Basin*, and its *Contents*; together with the true *Knowledge* of its *Bones*, their *Form* or *Figure*, *Office* and *Connexion*, &c. upon that *Occasion*.

III. OF that *Wonderful Body*, the *MATRIX*, and its *Vagina* or *Neck*; together with the understanding of its *Substance* and *Structure*, *Duty* and *Function* in *Time* of *LABOUR*.

IV. OF the *Strange Natural Qualities*, and amazing singular *Faculties* of *This Body*, in distinguishing all its peculiar *Properties*.

V. OF the *TOUCH*, or *Handling* the *Woman*; together with knowing its many various *Uses*, and manifold distinct *Advantages*.

VI. OF the *Genuine*, and *Real*; as well as of the *Spurious* or *Bastard-Labour-Pains*: How they differ in themselves, and are to be carefully distinguished.

VII. OF the *Method* of *LAYING* the *Woman*, and *Manner* of extracting the *AFTER-BIRTH*; together with all the *heterogeneous* and *preternatural Contents* of the *WOMB*.

THESE *Speculative Heads*, in short, shall be the particular *Subjects* of the respective *Chapters*, of the consequent *Part* of this *SECTION*, for the requisite *Instruction* and indispensable *Qualification* of all young *MIDWIVES*: As the *Practical Part* shall be the *Subject-Matter* of the two next following *SECTIONS*. Which
Practical

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Practical Part, I shall now likewise reduce to the *Three* subsequent general *Heads*; of which she ought also to have a full and compleat *Knowledge*. viz.

I. OF the various *Methods* to be taken for the present *Ease*, and expeditious *Relief* of the *LABOURING Woman*.

II. OF the discreet *Method* of *TURNING* an ill-situated *INFANT*, (whatsoever the preternatural *Posture* may be) and drawing it forth *safely* by the *FEET*.

III. OF Her own personal *Duty* (as *MIDWIFE*) both to the *MOTHER* and the *CHILD* after *Delivery*; as also towards all *Labouring Women*, to whom she may be call'd, upon *critical Conjunctions*.

THESE I call *practical Heads*, because they depend more upon *Practice* and *Experience*, or *Judgment* and *Charity*, than upon any *fundamental Rules*; which however yet ought also to be reckon'd *Branches* of her *THEORY*.

BUT notwithstanding all these natural and acquir'd *Qualifications*, the young *MIDWIFE* is not to run at once into the *Practice*: Nor to hurry herself rashly to lay *Hands* upon the *ARK*, before she is thoroughly well accomplished for so sacred a *Work*; lest (like *Uzzah*) she be punished for her *Temerity*; whereof I have seen several exemplary *Precedents*. No, the *Work* is too important, and the *Concern* too weighty for that hasty indiscreet *Undertaking*; for there is no less than the *Life* of the *MOTHER*, and one *CHILD* at least, (if not sometimes more) at *Stake*: Both which may be soon saved, or quickly lost, according to the Good or Bad *Conduct* and *Management* of the *MIDWIFE*.

WHEREFORE, to the End, that she may obtain the necessary *Experience*, and perfect her *Judgment*, &c. in due Course, she ought to satisfy herself at first to go (for some time) as an *Assistant* to some *skillful Woman* of good Business, and so by degrees advance herself into the *Practice*: Because *Dexterity* in this *ART*, is only acquir'd by *Time* and *Exercise*; the *practical Part* of *MIDWIFERY* being attended with so many
com-

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complicated Circumstances of *accidental Difficulties*, that it is almost impossible for any Persons, who never apply'd themselves this way, to believe how much it differs from all the *THEORY*, that the most ingenious *MAN* can make himself *Master* of.

I SHALL only (in this place) farther explain, what I mean, by the *MIDWIFE's Duty* to all *Women* in *LABOUR*, to whom she may be call'd upon *critical Conjunctions*; as the latter part of the above-mentioned last *General Head* purports: namely this, That the *MIDWIFE*, in the Course of her *Practice*, ought always to observe carefully, and follow strictly the *Rules* of *EQUITY* and *CHARITY*: That is, supposing the *MIDWIFE* to be sent for by a Person in *LABOUR*, whose *Case* is *Natural* and all Things likely to go well; and in the mean time, after she has taken her in Hand, is peradventure sent for to *another Woman*, whose difficult or preternatural *Case* threatens imminent *Danger*.

IN this *Case*, the *MIDWIFE* knowing herself to be better qualified than *Others*, and that *Another* not equally expert is able to lay the *Former*, she ought to attend and assist the *Latter*: And *That* also notwithstanding the *First* be *RICH*, and the *Latter*, *POOR*; since *GOD* is no *Respecter of Persons*.

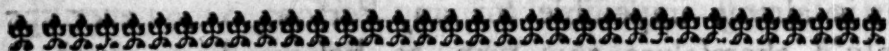
BUT, if it happen, that *one Rich*, and *another poor Woman*, want *HELP* both at a time, and are in equal *Danger*: In *that Case*, without any regard to the *one's WEALTH*, or the *other's POVERTY*; the *MIDWIFE* is to assist *Her* first, whom *Divine Providence* first call'd her to, or first engag'd her withal. And as the *Cases* of *Women* in *LABOUR* may differ, so she ought impartially to act and dispose of herself; having always an *Eye* to something *superiour* to, and far above that of mean *LUCRE*.



N

CHAP.

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C H A P. IV.

Of the QUALIFICATIONS of the Extraordinary MIDWIFE.

THE Extraordinary MIDWIFE, or *Andro-Boethogynist* (whether *Physician* or *Surgeon* practising this *ART*) ought not only to be endued with all the *Qualities* and *Qualifications* mentioned in the *Two* preceding *Chapters*, but also to excel the *WOMAN-MIDWIFE* in many special *Particulars*, and ingenious *Points*; which noways belong to her *Female Province*.

FOR it is not enough that *He* knows how to relieve and lay the *labouring Woman*, however difficult or preternatural her *Case* may be; nor is it sufficient that he understands how to help and succour both the *MOTHER* and the *INFANT* after such a *Delivery*: No, so much of his *Business* might be easily learn'd and enhanced by old *Women*, were they but *Docile*, and not such obstinate *Creatures*.

BUT *He* ought farther also to know (*first*) how to prevent all preternatural *Disasters* incident to both the *one* and the *other*, in their respective *States* of *CHILD-BED* and *INFANCY*: And, *Secondly*, how to administer Relief and perform the *CURE*, in *Case* of any dismal *Accident* whatsoever to *one* or *either* of them in their dangerous *Condition*.

MOREOVER, his *Knowledge* ought neither to commence nor terminate in these *Things*; it being also his *Duty* over and above to know, how to conduct the *Woman* safely through all the *Months* of *GESTATION*, and to avert from her the *Severity* of their respective *SYMPTOMS*, to which she is so much expos'd, as mentioned in their proper *Chapters*, *SECT. III.* And not only so neither, but *He* ought also to understand well

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well, how to guard against the *Accesses* of all *Acute Diseases*, so as at least to avert their ill *Consequences*; and especially (of course) to know thoroughly how to prevent *ABORTION* itself.

THESE are the *Cases* which most commonly require the ingenious Assistance of the *Extraordinary MIDWIFE*: And These are they which try his *Skill* and *Knowledge* most, as the *Tempest* or *Storm* best discovers the *Judgment* and *Capacity* of the *MASTER-MARINER*.

AND yet, neither ought even *these Limits* to be the narrow *Boundary* of his *STUDIES*: Since the more extensive his *ART* and *Knowledge* is, especially in what relates to the *natural Constitution* of *WOMEN*, the *fitter Man* He is to take upon himself the *Practice* of this noble and most ingenious *Profession*.

NOT that I would be thought tacitely to insinuate in this place by the By, as if my own *Knowledge* was in any degree *SUPERIOUR* to *other Mens*: No, I am too sensible of my own *Weakness*, to mean so, or to entertain any such vain selfish *Thought*; neither have I any fond *Ambition* to aim at standing in *Competition* with *others* in these *Respects*. For it shall suffice me, and sufficiently gratify my *Highest Aim*, if possibly a simple Word may drop from my *Pen*, which the more *Ingenious* may sometime improve to the common *Good* of *Women*, and the *Welfare* of their *Children*: And this I would desire the more, because I know no larger *FIELD*, that the *Learned* can launch out into; nor any profounder *Study*, that they can descant upon, than the *Nature* and *Constitution* of this tender *Sex*, which is so peculiarly different from all other *Natural Works*, and so singularly discrepant from all other *Created Beings*.

BUT more particularly in order, that the *MAN-MIDWIFE* or *Andro-Boethogynist* may be thus duly qualify'd and completely accomplished;

I. HE ought not only to be liberally *instructed* and generously *educated*, but also to be a *MAN* of good *Breeding*.

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Breeding and Conversation, as well as Courtesy and Complaisance.

II. HE ought not only to be a MAN of diligent *Study* and sedulous *Application* of Mind, but also of great *Humanity* and *Integrity*, *Temperance* and *Sobriety*, endued with solid *Resolution*, quick *Apprehension*, and great *Presence* of Mind.

III. HE ought not only to be a MAN of strict *Virtue* and *Chastity*, but also of unspotted *Life* and *Conversation*, *Charity* and *Compassion*; delighting in *Hospitality*, and doing *GOOD*; acting the *Christian* as well as the *Gentleman* in all respects.

IV. HE ought not only to be a Man of known *Discretion* and *Secresy*, *Sagacity* and *Judgment*, but also of a pleasant *Countenance*; neat and clean in *Person* and *Cloathes*, Agreeable and Decent in *Words* and *Actions*; carefully adverting (at all times) to give no *Occasion* of *Shame* or *Confusion* to the *Labouring Woman*, or the *By-standers*.

V. HE ought, in fine, to handle Her decently, and treat her gently; considering Her as the weaker *Vessel*, whose elegant tender *BODY*, will admit of no rough *Usage*: Wherefore upon this Account it is, that I would have all *Practitioners* whatsoever in this *ART*, debarr'd from the *Use* of *INSTRUMENTS*, which would secure many a *MOTHER* from being wounded or mangled, and many an *INFANT* from being cut or torn to *Pieces*.

NOT that I would be thought for all that to imitate Mr. Mauriceau, saying of himself (in some Passages of his *Book* of *MIDWIFERY*) that he differs from all others: No, far from it; For I have the *Indisputable Authority* of the most *Learned* and *Polite Practisers* on my side, as mention'd before in *Chap. I.* of this *SECTION*.

HOWEVER yet, I do not deny, but that *INSTRUMENTS* have been universally used, till of late Years; but the reason of That is Plain: Because in former Times, MEN were only call'd upon extraordinary *Occasions*; some of which (however Skilful and Ingenious) had

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had not the Opportunity of *Laying a Woman* perhaps in many Months. For which Reason it could not be otherways, but that they must have been at a loss in not understanding thoroughly the *Practical Part*, having so few Opportunities of improving *manual Operation*: Whereas since the *Politer Part* of the World has call'd them generally to the ordinary and common *Practice* of this *ART*; they have advanced their *Dexterity* by degrees, and are now come to the length of discharging that *Office* by *Slight of Hand* only, which formerly required so many *frightful INSTRUMENTS*.

I may well indeed say *frightful*; for what can be more inconsistent with the tender *NATURE* of *Women*, or more *terrible* to them, than to see *MEN* come *armed* against *Themselves* and their *tenderer INFANTS*, with *Knives, Hooks, Iron-Forceps, &c.* thereby (as it were) to help them in time of their extremest *Agony*? For my part, I am *Positive*, that let who will use *INSTRUMENTS*, they kill many more *INFANTS* than they *save*, and ruin many more *WOMEN* than they *deliver* fairly: And this, I think, will be easily agreed to, by all those who have any *Knowledge* of the *Parts* of *Generation* in that *SEX*; as (I believe) it is also sufficiently evident even to *Those* who have no *Judgment* that way, by the notorious *Fatalities* and tragical *Events* they daily hear of in *Fact*.

HOWEVER I know, some *Chirurgion-Practitioners* are too much acquainted with the *Use* of *INSTRUMENTS*, to lay them aside; no, they do not (it may be) think themselves in their *Duty*, or proper *Office*, if they have not their cruel *Accoutrements* in Hand: And what is most unaccountable and unbecoming a *Christian*, is that, when they have perhaps wounded the *MOTHER*, kill'd the *INFANT*, and with violent *Torture* and inexpressible *Pain*, drawn it out by *Piece-meal*, they think no *Reward* sufficient for such an extraordinary Piece of mangled Work.

BUT, in short, I would advise such to practise *Butchery* rather than *MIDWIFERY*; for in that *Case*, they could sell what they *slay*; but in this, by handling

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MAN so, they only bring *Infamy* upon their *Profession*, and expose it to the *Contempt* and *Hatred* of *Others*.

COVETOUSNESS is the blackest of *Vices*, and in this *Case* (I am sure) it is an unpardonable *SIN*, to thirst after sordid *Lucre* for procuring the *Health* or preserving the *Life* of our Neighbour; as, I doubt, is but too common among some mercenary People; Who (as we have been creditably inform'd) have refus'd to take *Women* in Hand at the very Point of Extremity or Time of Need, before a certain *SUM* of *Money* was first deposited; tho' perhaps borrow'd upon *Pledge*, or collected amongst their charitable *Neighbours* for *God's*-*sake*.

I do not say however, but that the *Workman* is worthy of his *Reward*, and *That* which ought to be paid according to the *Merit* and *Dignity* of his Performance; not according to the *Time* he spends about it, as hired *Labourers* are paid their *WAGES*: No, that fruitless *Labour* would not be worth while; no *Gentleman* would undertake *MIDWIFERY* upon such unprofitable *Terms*: For as it is in his Power to save the *Life* of the *MOTHER*, or the *INFANT*, or *Both*, (which he often does effectually) He undoubtably deserves an extraordinary *Recompence* worthy of so great and good a Piece of *SERVICE*.

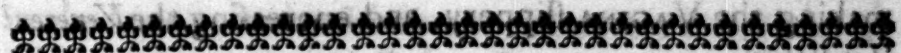
BUT notwithstanding all This, an extravagant *Price* is not to be arbitrarily demanded, nor ought the *Reward* to exceed the *Ability* of the *PATIENT*; neither are *Those* to be forsaken or left destitute of *Help*, and expos'd to imminent *Danger*, at all *Hazards* of *Life*, who cannot afford us *MONEY*: But rather (on the contrary) they are to be forthwith taken in Hand cheerfully, attended by Night or Day diligently, and a trifle of *MONEY* given (by us) rather than taken from them, when our *Fellow-Christian's* Circumstances so require it. For this is the right way to secure *God's Blessing* to *Ourselves*, and *Success* to all our *Endeavours*.

AND, in short, I humbly pray, that *He* may (out of his infinite *Goodness* and *Mercy*) always enable *Me*, according to my best *Inclinations*, faithfully to perform these

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these good Offices, which I know to be so much my indispensable and incumbent Duty, in that *STATION*, his All-wise *Providence* hath allotted me, as to the Affairs of *LIFE*.

WHENCE I come, in the next Place, by due Order, to treat particularly of the *Contents* of the preceding Chapter; and, *First*, to set forth an *Anatomical Description* of the several *PARTS* of *Generation* in manner following.



C H A P. V.

Of the External Parts of GENERATION.

THESE *Parts* are generally so well known, that I would not so much as mention them, out of *Modesty*, were it not, that, I presume, the young *MIDWIFE* may find something in the ensuing *Description* worth her singular *Notice*; which however, I shall not so much insist upon: But succinctly——

BEGINNING with the *First*, call'd the *VULVA* or *PUDENDUM*; we find it situated below the *Os PUBIS*, having a great *Chink* or *Fissure* in the *Middle*, as it has the *FRÆNULUM* and *PERINÆUM* in the *lower Part*. And above the *Chink* there is a little *Protuberance* occasioned by *Fat* under the *Skin*, call'd *MONS VENERIS*.

THE two *LABIA VULVÆ* being a little separated, the *NYMPHÆ* appear, join'd one to each interior *Side* of them: They are two small *Pieces* of red *Membranous Flesh*, much resembling *Pullet's Gills*; They increase the *Pleasure* of *Copulation*, and direct the *Course* of the *Urine*.

IN the upper *Part* of the *Chink*, next to the *Os PUBIS*, are several little round *Substances*; which the most ingenious *Fallopins* call'd the *CLITORIS*, almost hid under the *Skin* denominat'd the *PRÆPUTIUM*.

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A little deeper, or straight below the CLITORIS, is the URETHRA, or *Orifice* of the Neck of the Bladder; being a little *Hole* as big as a *Goose-Quill*; which discovers itself by a small *Eminence*, and is about two *Inches-long*.

BETWIXT the *Muscle*, call'd SPHINCTER URETHRÆ, and the inner *Membrane* of the VAGINA, are several small *Glands*; whose excretory *Ducts* are the *Holes* observable about the URETHRA, call'd * LACUNÆ GRAFFI; which discharge a *Liquor* for lubricating or making the VAGINA slippery, and encreasing the *Venereal Titillation*.

IN the *Orifice* of the VAGINA, there is a slender subtile *Membrane* situated a-cross, which is call'd the HYMEN, of a different *Form* in different *Women*; being sometimes *Annular*, and sometimes *Semilunar*: It is almost always to be found in *young Girls*, having a small *Hole* into the VAGINA; which *Hole* in ADULTS is somewhat larger. In the first *Act* of COPULATION this *Membrane* is torn, which generally occasions an Effusion of a little *Blood*; but this may also happen by many other *Procatartick Causes* †, and accidental *Occasions*.

THE GLANDULÆ or CARUNCULÆ Myrtiformes are constituted of the contracted *Fibres* of the dilacerated HYMEN; and are situated on the Side opposite to the URETHRA, next the ANUS, in the FOSSA Magna, or Navicularis; being the same Place where the HYMEN was at first established. These are small fleshy *Eminences*, and are sometimes Two or Three, and sometimes Four or Five in Number: They are deficient in GIRLS, and defaced in those WOMEN who have had CHILDREN.

THE VAGINA or Neck of the WOMB, is a long and round Canal, reaching from these Caruncles to the *Orifice* of the WOMB; not very unlike a strong small

* Heist. Anar.

† Vid. Sect. II. Chap. 2.

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Gut: Its *Orifice* is narrow in *Virgins*, and in *All Women* much narrower than its *other Parts*: Its *Substance* (according to *Ruyfche's Observations*) is *membranous*, *nervous*, *papillary*, and *wrinkled* *WITHIN*; which consequently must be of an *exquisite SENSE*: In *Virgins* the *WRINKLES* are very *Large*, especially in the *Fore-Part*; but after frequent *Embraces* they are *Less*, and after repeated *BIRTHS*, they entirely *disappear*.

THE *VAGINA* lies betwixt the *Bladder* and the *strait Gut*, or *RECTUM*; with which last it is wrapt up in the same common *Membrane*, from the *PERITONÆUM*, adhering to it, all its *Length upwards*, from its *Orifice* to that of the *WOMB*, and quite round on the *lower Side*, as it does to the *Neck* of the *BLADDER* above.

IN *MAIDS*, the *VAGINA* is about *Five Inches Long*, and one and a half *Wide*: But in *CHILD-BEARING-WOMEN*, it cannot be determin'd; because it *lengthens* in the time of *PREGNANCY*, and *dilates* in time of *BIRTH*; having likewise (in all) some little *Holes* or *Ducts* in it, which discharge a *mucous Liquor*. The *VAGINA* serves also, in fine, for a necessary *Conduit* to the *MENSTRUUA* and *LOCHIA*, as it does for a proper *Passage* to the *INFANT*, &c.

THESE are, in short, all the *external Parts* of *GENERATION* in *Women*; and these have all their proper respective *Functions* assign'd them by *NATURE*; contributing conjunctly and severally to the *Charms* of *COPULATION*: Which *ACTION* alters the very *Course* of the *Blood*, and *Motion* of the *Animal SPIRITS*; and consequently sets all the describ'd *Parts* in full *AGITATION*. Namely, thus

THE *LABIA* dilate: the *ORIFICE* swells: the *NYPHÆ* give way: the *CLITORIS* (of exquisite Sensibility) erects: The *GLANDS* (by a *Protuberancy* of the *Parts*) yield their *succous Contents*: The *VAGINA* draws close: The *Fibres* of the *WOMB* complicate to open its *Orifice*: The *Branches* of the *Spermatick ARTERY* contract to draw the *Extremities* of the *Tubes* to the *OVARIA*;

as

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as they carry the SEED to them: The SEED circulating in the *Veins*, which open in the Cavity of the *VAGINA* and *MATRIX*, it ferments immediately with the *Mass of Blood*: This *Fermentation* swells the *Membranes* of the *TUBES*, opens the Cavity of the *WOMB*, and disposes *All* perfectly for the right Reception of the *impregnated Egg*.

FROM hence we may plainly see, in what a miraculous Order and Manner, all *These Parts* minister, and are subservient unto that (yet more) admirable and wonderful Body the *WOMB*. Which being thus in brief anatomically described, I come next in Course to



CHAP. VI.

Of the Internal Parts of GENERATION.

IN discoursing of *These*, I shall begin with the chief Part, to which the rest are but *Subservients*.

FIRST then, the *MATRIX* or *Womb*, is situated in the upper Part of the Cavity of the *PELVIS*, or *Basin*, between the *Bladder* and *Streight Gut*. It is placed there in the Middle of the *HIPOGASTRIUM*, for the Convenience of *COPULATION*, and the more easy and ready *Extrusion* of the *INFANT*.

SECONDLY, The *Bones* of the *PELVIS* (as described hereafter below) stand as a *Rampart*, fencing it against all external *Injuries*; That is to say, the *OS PUBIS* protects it *before*; the *SACRUM* *behind*; and the *ILIUM* on *each Side*: Like as the *BLADDER* and *RECTUM* on the other Hand defend this Noble Part again from the *Rigidity* of these *BONES*.

THIRDLY, the *Figure* of the *Womb*, from its internal *Orifice* to its *Bottom*, in a *Natural State*, resembles a large compress'd *PEAR*. Its *Length* is about three Inches; its *Breadth* two in the *Hinder*, and one

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in the *Fore-Part*; its *Thickness* half an Inch large: But I take the *Dimensions* of it, in general, to differ according to the *Age* and *Constitution* of the Body.

IN MAIDS however its *Cavity* is much less, and can scarcely contain the Bigness of a BEAN: whereas in *Women with Child*, the *Dimensions* and *Figure*, as well as the *Cavity* itself differs, according to the different *Times* of GESTATION.

AS I have said before, its *Anterior Part* coheres above with the BLADDER, below with the RECTUM; the *Hinder-Part* being free: But the *lateral Parts* are tied by *Four Ligaments* of different Sorts; whereof Two are placed Above, and Two Below; the *Superiors* are called LIGAMENTA LATA, or broad; the *Inferiors* ROTUNDA, or round Ligaments.

THE two broad Ligaments are Membranous, and call'd ALÆ VESPERTILIONUM; which spring from the PERITONÆUM, and join the WOMB on each Side to the OSSA ILIA: So that the OVARIA are fasten'd to one End of them, and the TUBÆ Fallopianæ lie a-long the Other.

THE two round Ligaments arise from the Fore and lateral Part of the Bottom of the WOMB, and pass thro' the Rings of the Muscles of the ABDOMEN, terminating in Fat near the GROINS. They are of a hard Substance, pretty Big at the Bottom of the WOMB; but smaller and flatter, as they approach the OS PUBIS. Now These Four Ligaments serve to keep the WOMB streight, steady, and firm in its proper Place before BIRTH, and to restore it to its natural Position, by the Help of CONTRACTION, After.

THE Orifice of the WOMB opening into the VAGINA, is of the same Figure with the Nut of the PENIS: This in VIRGINS is very small, scarcely admitting a Specillum or Probe; in OTHERS it is much larger; but in *Women with Child*, several small Ducts or Vesicles open among the RUGÆ, which discharge a Glutinous Liquor to close and seal up this Orifice, till the Time of BIRTH.

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THE Substance of the WOMB is *Solid* and *Muscular*, composed of a various PLEXUS, or Web of fleshy *Fibres*, woven like a NET, with the Interposition of innumerable *Vessels*, of *ARTERIES*, *VEINS*, *NERVES*, &c. Without, it is surrounded with a *Thin* and *Smooth Membrane* from the PERITONÆUM; and within its Cavity, furnished with a *Thick*, *Porous*, and *Nervous* one, call'd the proper *Membrane* of the WOMB.

THE *Veins* and *Arteries* of the WOMB, proceed from the *Spermatick Vessels*, and *HYPOGASTRICKS*; which *Vessels* are all inserted in the proper *Membrane*. The *Arteries* convey the BLOOD for its Nourishment; which accumulating and abounding there in *great Quantity*, at *Maturity* of Years (when no more is requir'd for the *Encrease* or *Growth* of the Body) it distends the *Vessels*, and distills into the Bottom of the WOMB: Whence proceeds the *Blood* which nourisheth the *FOETUS* in the *Pregnant Woman*, and the *Monthly Terms* or *MENSTRUUM* in the *Woman* not with *Child*; which *Evacuation*, *MEN* Themselves are also subject to in a great Measure; (notwithstanding their inconsiderate *Detractions* and *vain Talk* on this Head) save only that in *THEM* the *Redundant Humour* passes off a different Way by *Urine*, by the *Nose*, and sometimes by the *Hemorrhoidal Veins*, &c.

THE *VEINS* serve only to reconduct to the *Heart*, the BLOOD which is neither wholly evacuated nor consum'd, as I observed more at large *Before*. But the *NERVES* arise from the *Intercostals*, and those of the *OS SACRUM*; remarkable *Branches* of which run along the Back of the *Clitoris*, from whence this *Part* is susceptible of the very slightest *Impression*.

THERE are moreover other small *Vessels*, springing one from another, which tend to this *Orifice*, and serve in *Plethorick Women* with *CHILD*, to carry off the Superfluity of the *Humours*. And, in short, prudent *Nature*, seems to have so ordered *These* to prevent *ABORTION*, which might easily happen, if the *pregnant WOMB* was too much expos'd, or was to open itself for this Purpose.

THE

Chap. 6. of GENERATION. 189

THE *Seminal* or *Spermatick Vessels* are *Four*, like as they are computed to be also in *MEN*, and differ only in being *shorter*. The *Blood Vessels* are very winding; and the *Spermatick Arteries* arising with a narrow *Origin* from the *Aorta*, form various *Plexus's*, and *Inosculations*, as *These* do: And the *Spermatick Veins* (tho' without *Valves*) have the like *Inosculations* with the *Arteries*, which however in *These* are more conspicuous.

THE *OVARIA*, or *TESTICLES*, are *Two Bodies*, on each Side *One*, annexed to the Bottom of the *WOMB*, at about *Two Fingers Distance*, near the *broad Ligaments*: They are fixed to the *PERITONÆUM* at the *ILIA*, nigh the *Spermatick Vessels*: Their *Figure* is almost *Oval*, a little depressed on the the *Upper Part*, where the *SPERMATICKS* enter.

THEIR *SIZE* is generally about half as *Big* as *MEN's* are; but *this* differs according to the *Age* and *Constitution* of Persons: Their *Surface* is smooth, and even in *Virgins*; but wrinkled, uneven, and dry in *old Women*: They are encompass'd with a proper strong *Membrane*, deriving its *Original* from the *PERITONÆUM*; which also covers all the *Spermatick Vessels*.

THEIR *Substance* is *Membranous* and *Fibrous*, interwoven with a vast *Number* of *Vessels*; among which are some round *Vesicles*, containing a viscus *HUMOUR*, when boil'd, of the *Colour*, *Consistence*, and *Taste* of the boil'd *White of an Egg*: From whence they are call'd *EGGS*, because of this *Analogy*. *These* also differ in *Size* and *Number*, according to *Age* and *Constitution*, although (ordinarily) the *Biggest* of them scarcely equals a *PEA*; and there are in *some* Persons *10* or *12* of them, in *others* (perhaps) but *One* or *Two* discernible.

THE *TUBÆ FALLOPIANÆ*, are *Two winding Canals*, resembling *Two Trumpets*, situated on the *Right* and *Left Side* of the *WOMB*, annexed close to its *Bottom*, by their double *Membrane*; which is only a *Continuation* of the *exterior* and *interior Membranes* of the *WOMB*: They in *SIZE* equal a little *Finger* about the *Middle*; tho'

tho' the *Cavity* opening into the *WOMB*, will scarce admit a *Hog's Bristle*; but the *other Extremity*, floating loose in the *ABDOMEN*, will admit the Point or Tip of a little *Finger*: They are of a *Membranous* and *Cavernous Substance*, about 5 or 6 Inches long, and have the same *Veins, Arteries, and Nerves*, as the *OVARIA*.

THESE *Tubes*, to be brief, (in time of *COITION*) are erected by a copious *Influx of Blood and Spirits*; which also, by the Assistance of their *muscular Fringes*, embrace the *OVARIUM*, transmit the *prolifick Masculine SEED*, afterwards receive the *impregnated EGG*, and at last convey it thence into the *WOMB*. In fine, these are all the *internal Parts*, as I conceive, tending to *GENERATION*. But more particularly, to proceed to



CHAP. VII.

Of the PELVIS.

THIS being that *Cavity* in which the *WOMB* is placed, and through which the *INFANT* passes in time of *BIRTH*; it is my Opinion that a distinct *Knowledge* of it is highly necessary for all *MID-WIVES* to accomplish their *Practice*: For without that *Qualification*, they cannot help committing a great many *Blunders*, and being guilty of innumerable *Mistakes*; since they must proceed upon gross *Uncertainties*, and use their *Hands* like *MEN* groping in the *Dark*, as hereafter will more plainly appear.

THIS is that *Cavity* betwixt the *Ossa INNOMINATA* and *Os SACRUM*; which join themselves in the *Posterior Part* of it on each side, by *Cartilages* and *Ligaments*: so that they, forming there a strong and firm *Juncture*, compose this *Cavity* of the *PELVIS*, which is vulgarly call'd the *Basin* of the *WOMB*.

THE

Ch. 8. *Of the Bones of the Pelvis.* 191

THE upper Part of the OSSA PUBIS forms the *Borders* of this CAVITY *before*, and the Hanging forwards or bending down of the OS SACRUM makes *Those* of it *behind*; as the OSSA ILIA compose the *same* on each side.

THESE OSSA ILIA are (by *some*) call'd the *Wings* and *Bounds* of the PELVIS; but they are mightily mistaken, who imagine that they furround or encompass the PELVIS: For they are only annexed to it on *each side*, and more extended towards the *Back* than the *Forepart*. As they are also very much in the *wrong*, who think that the Cavity of the PELVIS extends in its *Length*, according to the *Length* of the BACK-BONE: since it rises from the *Bottom* obliquely, ascending *Forwards*, and so proceeds, as if a Person might, through its *Passage*, easily touch the NAVEL.

IN fine, it is here Remarkable also, that we do not always find the largest PELVIS in *Women* of the largest SIZE, but often the quite *contrary*; for it differs as the INFANT does in *Bulk*, exactly answering to the *Bigness* of its HEAD: And in some *Women* it is *Deeper*, in some *Larger*, in some *Broader*, in some *Flatter*, in some more *Oval*, and in some at last *Rounder*. From whence arise sundry *Observations* both useful and necessary, for the better *Information* of MIDWIVES.

C H A P. VIII.

Of the BONES of the PELVIS.

I Doubt not in the least but *This* and the *preceeding* Chapter will seem needless, and appear superfluous to some Persons, in the *Practice* of MIDWIFERY; namely, to such as know not the *New Improvements* of this ART: But especially to such as are accusom'd to the *Use* of INSTRUMENTS, they'll appear altogether *Useless* and *Vain*; since such *Practitioners* can easily (upon
any

any Occasion, without the curious *Anatomical Knowledge* of these Parts) first slay the *INFANT*, and then either deliver or kill the *WOMAN*, as *Chance* may direct their *SHARPS*.

BUT for my Part, because I have no Notion of such sort of *WEAPONS*, I shall endeavour to acquit my self more *honourably*, and teach my *Followers* another way, and That without *BLOOD-SHED*; as I hope will hereafter more amply appear.

AND FIRST therefore in speaking of the *Bones* of the *PELVIS*, I shall begin with the *OSSA Innominata*; which are two large *Bones* joined to the *Sides* of the *OS SACRUM*. They are compos'd of *Three* distinct *Pieces*, each of which has its respective *Name*: The *FIRST* and *superior* is call'd *Os ILIUM*; because the *Guts ILIA* lie upon it directly. It is *Large* and almost of a *Semi-circular Figure*, a little *Convex* and *Uneven* on its *External Side*; as it is *Concave* and *Smooth* on the *Internal*. In short, it is join'd to the *Sides* of the *three Superior VERTEBRÆ* of the *Os SACRUM*, and is *Larger* in *WOMEN* than in *MEN*.

THE SECOND and *Anterior* is call'd *Os PUBIS*; which is united in the *Forepart* to its *Fellow-BONE* of the *other Side*, by an intervening *Cartilage*: By the Extension of which *Cartilage*, the *Ossa PUBIS* in *Young Women*, sometimes recede a little from *One another*, to facilitate a difficult *BIRTH*.

THE THIRD is the *Inferiour* and *Posteriour*, call'd *Os ISCHIUM*, or *COXENDIX*, which has a large *Cavity* call'd *Acetabulum Coxendicis*; and This receives the *Head* of the *Os FEMORIS*; the *Supercilium* or *Top* of which *Cavity* joins the *Os PUBIS*.

THESE *Three Bones*, until the *Age of Puberty*, may be seen distinctly, tho' afterwards they grow together, and become *one BONE*, without leaving any *Mark of Division*. They adhere on each *side* to the *Os SACRUM* by two *Strong Ligaments*; the *Upper* of which passes from the *Posteriour Acute Process* of the *ISCHIUM* to the *SACRUM*; as the *Lower* joins the *Tuberculum ISCHII* to the *SACRUM*.

THESE

Chap. 8. of the PELVIS. 193

THESE *Bones* in *WOMEN* are more distant or separated from *One another*, and are *smaller* than in *MEN*; especially the *Os PUBIS*, to the end that the *Cavity* of the *PELVIS*, and the *Angle* betwixt the *Os PUBIS* and *ISCHIUM*, may be the *Larger*, for the more commodious *Bearing* of the *INFANT*, and the more easy *Exclusion* of it in *BIRTH*. But from hence I would no-ways infer, that the *Ossa PUBIS* and *ILIA* sever themselves in time of *LABOUR*; (notwithstanding the *Opinion* of *some Authors*) for I am fully satisfied of the *contrary*: Because I have conducted more than one *Woman* in my *Time*, upon walking out of *one Chamber* into *another*, immediately after *DELIVERY*; which could never have happen'd in *Case* of such a distant or dislocated *Separation*.

THESE *Bones* call'd *Innominata* are of wonderful *Use* and *Service*: For besides that they form the *PELVIS*, and defend every *Part* of its *Contents*, they also give *Connexion* and *Juncture* of the rest of the *Body*, to the *Thigh-Bones*; as they likewise give *Rise* and *Origin* to many *MUSCLES*, and are the *Basis* or *Support* of the *SPINE* of the *Back*, as well as of all the *Superior Parts*. Whence I come *à propos* to descant a little upon this particular *Part*, as far as concerns our present *Purpose*.

THE *SPINE* then is that *Bony Column* or *Ridge*, which extends itself down the *Back* from the *HEAD* to the *Fundament*, containing the *Spinal Marrow*, and resembling the *Letter S* in figure.

IN THIS *SPINA* therefore we must consider its *Five-fold Division*; namely, into *NECK*, *BACK*, *LOINS*, *Os SACRUM*, and *Os COCCYGIS*. The *First Three* consist of 24 *VERTEBRÆ*; whereof the *Neck* has 7, the *Back* 12, and 5 belong to the *Loins*. *Those* of the *NECK* bend *inwards*; *those* of the *BACK* *outwards*, for enlarging the *Cavity* of the *THORAX*; *Those* of the *LOINS* bend *inwards* again; and *Those* of the *Os SACRUM* *outwards*, to enlarge the *Cavity* of the *PELVIS*.

THE *VERTEBRÆ* of the *two last* concern us most in this *Place*; wherefore I shall say no more of the *rest*,

save only by the By, or coincidently, as they fall in my way. *Those* of the LOINS then are the *Thickest* and *Broadest*, and the *Last* of them is the *Largest* of all the VERTEBRÆ; as their *Cartilages* are thicker and stronger than any of the *Others*, and their *Acute Processes* are at a greater *Distance* from one another. From whence it comes to pass, that the greatest *Motion* of the BACK is perform'd by the VERTEBRÆ of the LOINS.

THE VERTEBRÆ of the OS SACRUM grow so close together in *Adults*, that they make but one large solid BONE, of a *Triangular Figure*; and yet not without the *Mark* of a four or five-fold *Division*: As in CHILDREN, it consists of many more *Pieces* or *Divisions*. However, its *Basis* is tyed to the last VERTEBRÆ of the LOINS, and the *Upper part* of its *Sides* to the ILIA; as its *Point* is to the OS COCCYGIS.

THE OS COCCYGIS is also in *Adults*, for the most part, but one entire BONE; tho' in *younger Persons* it is compos'd of 3 or 4 small *Divisions*: Of which the *Lower* is still less than the *Upper*; till the *Last* ends in a small *Cartilage*. It is join'd in its *Glenoide Cavity* to the *Extremity* of the OS SACRUM; being short and bent *inwards*: It supports the INTESTINUM RECTUM, and yields to the *Pressure* of the INFANT in *Travail*: But MIDWIVES ought not to thrust it back or repel it with *Violence*; No, they should rather handle it *gently*, if they would prevent dangerous *Consequences*, as well as great *Pain* to the *Woman* in LABOUR.

FROM hence it is manifest, that *they* are mistaken who imagine that the *Opening* and *Enlargement* of the PELVIS, in making way for the INFANT, does depend upon the *Separation* of the OSSA PUBIS: For it much more depends upon the *yielding* of the OS SACRUM, or its giving way naturally; especially *This Part* of it call'd OS COCCYGIS. Neither doth the *Straitness* of the *Upper Part* of the PELVIS so much occasion a difficult BIRTH, as the *small Distance* that is betwixt the *Points* of the OSSA PUBIS, call'd OSSA SEDENTARIA or *Seat-Bones*, and the OS COCCYGIS: No indeed, neither of
These

These can be any great *Hindrance* to the Passage of the INFANT ; since all BONES, never so closely knit together with LIGAMENTS, may be moved *extensively* upon occasion, by carefully and gently *stretching* the said LIGAMENTS. But, in short, it most commonly happens, that the *Ill Position* of the INFANT itself, or the bad *Condition* and *Situation* of the WOMB, or *Both*, occasion a difficult or preternatural BIRTH.

BUT I would here farther observe yet, that as these BONES differ frequently both in *Form* and *Size*, according to the different *Constitution* of the Body ; so neither are *they* always of the *same Substance* : For in *some Women*, we find a great many *Nervous* and *Cartilaginous* LIGAMENTS, which penetrate into the *solid Substance* of the BONES themselves ; in which the LIGAMENTS are so fast bound together, that it is hard to distinguish whether they are *One* or *More* BONES. From whence, however, it will hereafter appear, that *One Woman* is more easily deliver'd than *Another* ; the BONES in *One* being more firm and immoveable, altogether resisting any *Relaxation* ; which in *Another* are more loose and pliable, easily give way and yield freely to the *Force* of the Endeavouring and Struggling INFANT.

THE *Contents* of this SECTION will appear more evident, by looking curiously upon a *Female SKELETON* : In which (for Distinction's-sake I recite *This*) that the lower Parts of the *Seat-Bones*, are generally more *distant*, and not so much bent *inwards*, down towards the Point of the Os COCCYGIS, as in a *Male SKELETON*. Which Difference, in short, the Omniscient CREATOR has so order'd, for preventing difficult BIRTHS ; and yet, notwithstanding all this wise Provision of Nature, they happen too too often in the World. However, having thus, in fine, described the PELVIS and its BONES, as far as is requisite for *MIDWIVES*, I come next, more particularly to describe that astonishing *Piece* of God's *Handy-work*, to which all the afore-mention'd *Parts* are ordain'd to *minister*,

and that both *conjunctly* and *severally*, without any *Exception*: viz.



C H A P. IX.

Of the W O M B.

I Say this is that *Body*, which the *Learned Great Men* of all Ages have esteem'd and look'd upon as the most wonderful *MIRACLE* of *Nature*, not only because of its singular *Substance* and *Structure*, but also of its peculiar *Qualities* and *Faculties*.

A S to the *Substance* and *Structure*, I have before observed in *Chap. 6.* of this *SECTION*, that it is singularly composed, of an innumerable *Multitude* of *Fibrous Vessels* and *Muscular Parts*; which being *All* most curiously interwoven, are admirably form'd together in its *Constitution*.

B U T how particular soever I have been on this *Head*, in *Chap. 5.* and *6.* I must resume this *Topick* here, and add, that the *WOMB*, and its *Vagina* or *Neck*, are closely join'd together: For it terminates in a *POINT* near its *Orifice*, intrudes itself into the *Vagina*, and hangs so down, that in *Women not with CHILD*, and sometimes also in the first *Months* of *Pregnancy*, This sharp *POINT* may be perceiv'd by the *Touch*.

A N D how closely soever this *Orifice* of the *WOMB* is shut after *Conception*, or during *Pregnancy*; yet in a *BIRTH* it is so expanded, that the *WOMB* and *Vagina* both seem to have but *One* and the *same Cavity*, like a *BAG* of equal *Dimensions*; there being then no *Difference* perceivable between that *Orifice* and the *Vagina*, excepting that the *VAGINA* is *Softer* and *Thinner*.

T H E *WOMB* may be otherwise aptly compar'd to the *EARTH*; because the same *Degree* of *Affinity* that the *EARTH* has to the *Seed of Plants*, the *WOMB* bears
to

to the *Seed of Men*: It being the very *Secondary Cause* in the *Constitution* of the *Human Conception*; not indeed the *Instrumental* only, but also the *Active Cause*: For whereas the *Instrument* takes *Motion* from, and operates by *Virtue* of *Another*, the *WOMB* only acts of itself, and operates by *Virtue* of its own *Active Faculties*.

BUT more particularly, the *WOMB* has sundry proper *Actions* in this *Constitution*, which are peculiarly dependent of, and accordingly discharged by *ITSELF* only; and therefore it is not the sole or pure *Instrumental Agent*. But the Reason that I call it the *Secondary* or *Disponent*, not the *Primary Cause*, in constituting the *FOETUS*, is, because the *Actions* of the *WOMB* do not precisely terminate in this *Constitution*, but chiefly in disposing the *Causes* constituting the *MAN*. And as (I think) there are *Eight* such *Actions* belonging to the *WOMB*, I shall undertake to define them all particularly in a few Words. And,

I. THE *FIRST Action* of the *WOMB* is, that by its *attractive Faculty*, it may allure the *Masculine Seed* infus'd by *Coition* into the *FUND* of its *Capacity*, after the same manner as a *famishing Stomach* snatches at the *Vic-tuals* by the *Gullet* from the *Mouth* of the *Eater*.

II. THE *SECOND* is like unto the *FIRST*, and consists in *attracting* (after the same manner) the *Mulierian SEED* from the *Vessels* of the *TESTICLES*, into the same *Cavity*.

III. THE *THIRD Function* of the *WOMB*, is the *Copulation* and mutual *Conjunction* of the *SEEDS* of both *Parents*; which it prepares and perfects by its innate *Power*, constricting itself in all *Parts*: And this *Action*, I do not (in this place) call a *Permission* of these *SEEDS*, as it is generally term'd, because a *Mixture* is properly perform'd only by the concurring *Qualities* and mutual *Actions* of two or more miscible *Copulatives*, without any *Assistance* of the *Thing Containing*.

IV. THE *FOURTH Office* of the *WOMB*, is an *Effusion* of the *Menstruous Blood* upon the aggregated *Seed*,

Seed, from a Relaxation of the little *Orifices* of the *VEINS* terminating in its interiour *Surface*.

V. *THE FIFTH Action* of the *WOMB*, is, the *Retention* of those three conjoin'd *Bodies*; to effect which *Work*, the *WOMB* contracts itself on all sides, and shuts up all its *Orifices*, even to the sensible *Animadversion* of the *WOMAN*.

VI. *THE SIXTH Function* of the *WOMB*, is to excite the *Virtue* of the *Torment Lifeless SEED*, and rouse it up from *Idleness* to *Activity*; as the latent *Virtue* of *PHYSICK* in the *Body* is excited to *Operation* by the *natural Heat* of the *VISCERA*.

VII. *THE SEVENTH Office* of the *WOMB*, is (after the *FOETUS* is *Form'd* and *Organiz'd*) the *Attraction* of the *BLOOD* from the *Maternal Veins*, into the *Umbilical Vessels*, for its *Nutrication* and *Growth*.

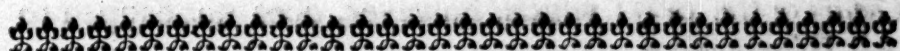
VIII. *THE EIGHTH* and last *Function* of the *WOMB*, is *Birth*, which I shall remember to speak more particularly of in its proper *Place*.

FROM all which we may easily collect the sundry proper *Uses* of the *WOMB*, and readily comprehend that it is not only destin'd by *Nature* to admit the *SEED*, and receive the *impregnated EGG* from the *OVARIUM* and the *Fallopian Tube*; but also to contain the *Organizing Matter*, and all necessary *Principles* (*Active* and *Passive*) for constituting the *Conception*; fomenting the receiv'd *SEEDS*, by its natural *Calidity*, preserving the same, and preparing the *Maternal Blood* by its inherent *Temperament*, for the *Use* of the *FOETUS*: Which *FOETUS* it surrounds and defends from external *Accidents*, by its *Substantial Corpulency*; containing and nourishing the *INFANT*, about the *Space* of 9 or 10 *Months*, by its *Faculties* of *Extension* and *Attraction*; and at last forcing it into the *World*, by that of *Expulsion*.

UPON which Occasion, that the *MIDWIFE* may the better discharge her *Duty*, and assist the *Labouring Woman* more effectually, without *Fear* or *Danger*, and without committing any *Blunder* or *Mistake*; as I have already taught her in what *Place* the *WOMB* is seated,
to

Ch. 10. The WOMB's Extensive Faculty. 199

to what *Parts* it tends, and how it is *annexed*, &c ; so I shall now proceed to describe its *Qualities* and *Faculties*, so far as is necessary, and absolutely requisite in the *Practice* of *MIDWIFERY*. And, FIRST, then——



C H A P. X.

Of the Extensive Faculty of the WOMB.

NATURE has endued the WOMB with this *Faculty*, to the end that it may (in *Pregnancy*) extend and dilate itself Day by Day, in *Proportion* to the *Growth* of the *INFANT*, *Secundine*, and *Humours*.

NOW the WOMB in its *lower Part* being straitly tied to the *Intestinum Rectum* and *Bladder* ; it is to be understood that the *Distention* happens mostly in its superiour Part or *Bottom* : Which is not only most *Free* and at greatest *Liberty*, but also *Thickest* and aptest for *Dilatation*.

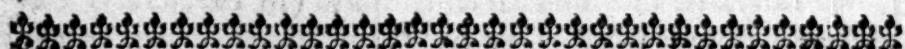
THIS will appear more evident, when we consider how the *INFANT* adheres to that Part, the *Bottom*, by means of the *Secundine* : How the *INFANT* also as it grows, begins to separate the *Humours* in the *Secundine*, which (of consequence) encrease as the *Infant* does : And how again the Encrease of the *Humours* fill up the *Chinks* and *VACUUMS*, as I may call them, which the *INFANT* cannot possess. From hence it is that the WOMB extends itself in the *Form* of a *PEAR*, only a little *Plainer* at Both Ends.

THUS the *Secundine* adhering * to the *Bottom* of the WOMB, by its *thicker Part* (call'd the *PLACENTA*,) thence it is that the WOMB encreases and extends itself more in its *Bottom*, than in any *inferiour Part*.

* Vid. Sect. I. Chap. 12.

WHEREFORE the WOMB being most extended in its upper Part, call'd the *Bottom*; and both the *Bladder* and *RECTUM* below being soft loose *Parts*, it necessarily follows, that the WOMB may freely *ascend* and *descend* upon Occasion, as we often find it in the *Cavity* of the *Belly*; which, however, does not happen to All *Women* alike.

BUT, in short, these *extensive* and *ascensive* *Faculties* of the WOMB, chiefly residing in its *Bottom*; I would have it laid down for a certain *Maxim* of Truth, that *These* exert themselves, without any the least *Extenuation* to the *Uterine Substance*: Which Position leads me directly to consider—



C H A P. XI.

Of the Substantial Density of the WOMB.

TOUCHING the *Thickness* of the *Pregnant WOMB*, *Authors* have differ'd extremely: *Some* thinking, that as the WOMB grows *Larger*, it grows *Thicker*; and *Others* the *Reverse*, that as it *extends*, it grows *Thinner*.

NOW these *Opinions* being both diametrically opposite *One* to the *Other*, as *Both* (perhaps) may be contrary to *Truth*, I shall freely and ingenuously offer my *Sentiments* in a few Words; not that I vainly desire to engage myself in any *Controversy*: Save only, because the true *Knowledge* of this Point, is so *Material* and *Consequential* for all *MIDWIVES*, especially in *Cases* of difficult and preternatural *BIRTHS*, that I cannot well excuse myself, should I pass it by with *Silence* in this Place.

MR. MAURICEAU, in his *Book* of the *Diseases* of *Women*, contradicting the Authority of *Riolanus*, *Bartholinus*, and the whole Body of the most Renown'd and Ingenious *Anatomists*, both *Ancient* and *Modern*, is at great Pains to make us believe, that the *impregnated WOMB* is (like the *Bladder*) in this Case; *the more it is extended, the thinner it grows.*

BUT

BUT as his quoted Authority of *Galen* and *Carol. Stephanus* cannot be sufficient against so many good *Authors* of the *contrary Opinion*; so neither will his *Demonstrations* of *WAX*, nor *Comparisons* with the *WOMBS* of *Animals*, be sufficient to make out his *Argument*, against confirm'd *Experience*, common *Sense*, and current *Reason*. Which Point of *Experience* I judge this *Author* to have been deficient in, otherwise he would certainly have given us some *particular Instance* or other of it, and not had *Recourse* to *Inconsistencies* for supporting his new-fashion'd unreceiv'd *Notion*. For what *Comparison* can there be betwixt an *Animate* and *Inanimate Body*? Or what *Affinity* betwixt the *WOMB* of *Animals* and that of *Women*, who are form'd after the *Image* of *GOD*, and (by a *Prerogative* above all other *Creatures*) are furnished with a *WOMB* very different from them?

I ingenuously acknowledge, when I first met with this *Author's Works*, not daring then to be too *Positive* in this *Point*, I was put into some *Suspence* of Judgment; which made me not only consult with the best of *Authors* and *Professors* of *ANATOMY*, but also induc'd me to embrace every Opportunity of satisfying myself otherways to a full *Conviction*.

WHEREFORE at all *Dissections* of *pregnant Women*, where I have been present, I carefully observed and took notice of this particular *Point*; upon which I must needs affirm, that I always found the *WOMB* (however *Big* or *Little*) of its *natural Thickness*, and rather *thicker* than *thinner*: For tho' It is expanded by the *growing Infant*, &c. yet it may (most probably) be equally condensed, by the *Imbibition* of the *fluent Humours*, which consolidate into *itself* by the *Pores* of its *Plexous Body*. Nay, I have not only satisfy'd myself in *dead*, but also in *living Bodies*, with respect to this Matter; for by passing *One Hand* into the *WOMB* to take away the *Secundine*, when the *Other* laid upon the *BELLY*, I clearly discerned the *Truth* by *SENSE*, and have sometimes found the *WOMB* not only incredibly *Thick*, but also *RIGID* withal: And in this Matter,

Matter, I have not been singular; for I find the *ingenious Daventer* writes to the same purpose, upon this *Head*, in his Book of *Midwifery*. Having therefore thus, in short, perceiv'd the *Thickness* of the *WOMB*, both with my *Hands* and *Eyes*, I must trust my *SENSES*, and prefer my *Experience* before any *Man's bare Conjecture*; for tho' I often see not those Things which I believe, yet I must still believe those Things which I see.

WHENCE I conclude, that the *WOMB*, tho' of a different *Bigness* from the *Conception* to the *BIRTH*, is always, at least, of one *Thickness* with the *unconceiv'd WOMB*: Which the *Divine Wisdom* (no doubt) has so ordered for the *Preservation* of the *MOTHER* and *INFANT*; for if the *WOMB* in Time of *Pregnancy* did grow *Thinner*, according to its *Extension*, it must of Consequence grow *Weaker*, and in that Case the *INFANT* would be liable to perforate it with *Foot* or *Hand*, which would infallibly terminate in the *Loss* of both their *LIVES*.

BUT besides, if the *WOMB* was so *Thin* and *Weak* as Mr. *Mauriceau* imagines; as the *Pregnant Woman* would be liable to imminent *Danger* every Moment *Before*, as well as *In Time* of *LABOUR*; so the *MIDWIFE* would be expos'd to the greatest of *Difficulties*: For who then durst, without *Horror*, offer to turn the *INFANT*, so closely compress'd in those *thin Membranes* of the *WOMB*? Or who could have *Resolution* enough to separate and pull away the *AFTER-BIRTH*?

HOWEVER, I could produce innumerable *Instances* of most *Learned* and *Ingenious Men* to support my above-mentioned *Opinion*; but I shall content myself now with *ONE*, who (I think) is of sufficient *Authority*: For hearing lately that Mr. *Mauriceau's* mention'd Book (which I had only read before in its *Original French*) was translated by Dr. *Chamberlain*, I doubted not but I should fully discover that *Eminent TRANSLATOR's Sentiment* upon this single *Point*; whereupon this most famous *Physician* and *Boethogynist* marks by way of *Observation* or a *Bene Notandum*, that his *Charity* for his *Author* makes him believe that *French-Women*

Ch. 12. *The WOMB's Local Motion.* 203

Women differ in this *Point* from *Our English*, with whom it is apparently otherwise order'd. And in the farther Explication of his *Author's Opinion* on this *Head*, he adds, That *Experience* will convince any inquisitive Person of the *Contrary*.

TO which I reply, in short, with all due Submission, that the *French-Women* do not differ one Jot in this respect from *Ours*, nor *Ours* from any *Others*: Which (no doubt) the worthy *Doctor* was very sensible of, notwithstanding his great *Complaisance* to his *Author*.

C H A P. XII.

Of the various Local Motion of the WOMB.

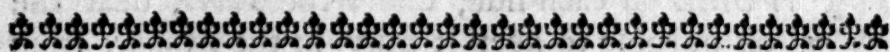
ALTHOUGH the *Ligaments* are fixed to the *WOMB* on each side, under the *Tubes*, near the *Bottom*, on purpose to keep it duly in the *Middle*, from falling to either *Side*; yet we may easily perceive, FIRST, That the *Pregnant WOMB*, as it dilates and extends itself most (in the *Bottom*) above the *Ligaments*, so it rises *Highest* and becomes *Heaviest* in that Part; by which means it cannot always be contained in the narrow *Compass* of the *PELVIS*, and the Larger the *INFANT* is, the Higher the *WOMB* rises (above the *Ligaments*) in the *BELLY*. Insomuch that when the *Cavity* of the *PELVIS* is not sufficient to contain a large *WOMB*, fill'd with One or more well-grown *INFANTS*, together with the *Secundines* and *Humours*, it must (of necessity) ascend into the *Cavity* of the *BELLY*; as is evident from *Chap. 10.*

SECONDLY, The *WOMB* being in Form of a *PEAR*, much larger *above* than *below* the *Ligaments*, and that *superiour Bulk* being only sustain'd at the *lower Part* by subtile *Ligaments* apt to extend, as well as supported near the *Orifice* by the *Bladder* and *RECTUM*, which are soft, loose, and *extensive Parts*: Hence, I say, we may

204 *Of the Oblique Situation* Sect. IV.

may easily conceive, that as *These* are not sufficient to hinder a large WOMB from ascending above the Borders of the PELVIS into the *Cavity* of the BELLY ; so neither are *they* able to keep it from leaning or inclining *this* or *that* way, by reason of its *Weight* in the *Bottom*, which is always the farther distant from the *Ligaments*, the more it is *extended* : And the *extended* WOMB being not of the same *Firmness* and *Solidity* with *THAT* in a *natural State*, is the more apt and ready to move *aside*, either on the Right or the Left Hand.

NOW this various *Motion* of the WOMB, in short, will appear more manifestly *Probable*, when we consider how variously *Women* with *CHILD* move their *Bodies*, bending them every way for *Relief*, when oppress'd with *Pain* ; both *sitting* and *lying* in different *Postures* : All which may easily give the WOMB a *Tendency* this or that way, sliding either *Forwards* or *Backwards*, to the right or the left *Side* of the Person.



C H A P. XIII.

Of the Oblique Situation of the W O M B.

I Doubt not in the least but among the *Many*, some will reject *this THESIS* as *False* or *New-fangled* ; but *They* who are *Ignorant* of it, are meer blind *Novices* in the *Art* of MIDWIFERY : For repeated *Experience* has taught *Myself* and many *Others* the *Certainty* of this *Truth* ; as will more amply appear from the following *Discourse*.

THE *Womb* having then ascended into the *Cavity* of the BELLY, if its *pointed Parts* tend perpendicularly into the PELVIS, so as that its *Orifice* may be easily touch'd on every *Side* with the *Fingers*, its *Bottom* is placed about the N A V E L ; and *This* I call a right or *natural Situation* : But when otherways, the *Posture* is changed, inclining *this* or *that* way, and the *Orifice* suspended

pended so *High*, that it can scarce or not at all be touch'd, I call *That* a wrong and *preternatural Position*, or *oblique Situation* of the WOMB; which may not only be occasion'd (as is said) by the *Weight* and *Bulk* of its *Bottom*, above the extended and relaxed *Ligaments*, but also by many other different *Causes*; such as an obdurate *Gland*, a *Cicatrix*, an *Ulcer*, an *Obstruction* of the *Vessels* in the *Ligaments* or adjacent *Parts*, &c.

HENCE it is that the *wrong Positions* of the WOMB are manifold, which would be very tedious to enumerate exactly here; but only, that I may not pass by what is so *material*, I shall reduce them to a *Fourfold Difference*; as the *Ancients* did the *Winds*, because of the *Four Regions* or *Limits* of the *Heavens*. And *Those Four* will (I hope) comprehend all other *wrong Situations* of the WOMB, not very improperly or *mal-à-propos*, as *Ovid** has comprehended *These* in the following elegant *Verses*, viz.

- " *Eurus ad Auroram Nabathæaq; regna recessit,*
- " *Perfidæq; & radiis Fuga subdita matutinis.*
- " *Vesper & Occiduo quæ littora sole tepescunt,*
- " *Proxima sunt Zephyro, Scythiam septémque triones*
- " *Horrifer invasit Boreas. Contraria Telus*
- " *Nubibus assiduus, pluviôq; madescit ab Austro.*

THE *first* bad *Position* of which is, when the *Bottom* of the WOMB is placed on the *left Side* of the Woman, a little raised or depress'd; the *Orifice* being turn'd towards the *SPINE* of the right *Os ILIUM* or *Os PUBIS*, against which the *INFANT* in time of *BIRTH* commonly pushes its *Head*, beats out its *Brains*, and sticks there to *Death*: Or else passing the said *SPINE*, it lies *a-thwart* the *PELVIS*.

THE *Second* ill *Position* of the WOMB is, when the *Bottom* is seated on the *right Side*; the *Orifice* being

* *Metamorph. lib. 1.*

206 *The WOMB's Oblique Situation.* §.IV.

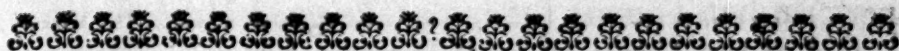
turn'd towards the *left Part* of the PELVIS, directly opposite to the *other Position*, and attended with the same *Inconveniencies*.

THE *Third* is, when, in *Women* having large *Bellies*, the *WOMB* hangs too much *Forwards*; the *Orifice* being turn'd towards the *Os SACRUM*: So that the *INFANT* falls down by the *Head* into the *Bent*, or crooked *Cavity* of the *Os COCCYGIS*, where it fatally sticks fast.

THE *fourth Oblique Situation* of the *WOMB* is, when its *Bottom* is press'd too near the *DIAPHRAGMA*, and its *Body* too near the *VERTEBRÆ* of the *Loins*; the *Orifice* being elevated, is thereby turned too near the *OS PUBIS*, where the *INFANT* striking its *Head* against these *Bones*, remains immoveable and perishes: Or, (which is worse) sliding with its *Head* upon the *OSSA PUBIS*, it is turn'd on one or other *Side* or *Backwards*; when (commonly with *Hand* or *Arm* out of the *Body*) it lies *a-thwart* the *Passage*, and infallibly occasions its *OWN* or its *MOTHER'S Death*, or *Both*; unless (as in the *three preceding Cases*) it be in due time prevented by the *Assistance* of some very skilful *HAND*.

THOSE are the *Four* most difficult and principal wrong, or chief *preternatural Situations* of the *WOMB*; from whence we may easily frame a competent *Conjecture* of the *Rest*; to wit, when the *Bottom* of the *WOMB* is more or less turn'd to the *right*, or the *left Side*, or *forwards*, or *backwards*: Since as *that* differs more or less from the *natural Position*, so the *BIRTH* in like manner is (of consequence) the more or less *Difficult*, as will hereafter manifestly appear.





C H A P. XIV.

Of TOUCHING or HANDLING the Woman.

THE Midwife ought to have a special Knowledge in This Matter, since a Thing of so much Moment as LIFE itself often depends upon it; yea, and this Knowledge is of absolute Necessity to all Persons practising MIDWIFERY, because many different Points of the greatest Importance, are thereby plainly discover'd: But before I enter upon these Things, I would have it rightly understood, that nothing else is meant here by the Performance of the TOUCH, than (upon having first pared the Nails short, equal, and smooth) passing the two Fore-fingers of either Hand, (previously well anointed with Fat or Butter, when proper Oils are not to be had) through the VULVA into the VAGINA, in order to reach the Orifice of the WOMB, and to discern its FORM, by feeling it on each Side.

AND it is not only requisite that the Woman in LABOUR be touched, before her Pains come on, because then the Membrane containing the Humours being loose, the INFANT's Posture may be the better distinguish'd; but the same TOUCH also is to be continued during the Force of the Pains, the better to know their Nature and Effects; whether the INFANT continues still at the Passage or not; and whether the Humours are contracted length-ways, or press'd into a Flat Form, and the like. For after the Pains are over, it is easily to be perceiv'd, whether they have promoted the BIRTH or Not.

BUT during this Performance of the TOUCH, great Care must be taken not to handle the Membranes containing the Humours too roughly, lest they should break in the Action.

NOW

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NOW that the MIDWIFE may the more readily perform her TOUCH, she must take good Heed to what is said of the *Cavity* of the * PELVIS: for as it rises from the *Bottom* obliquely, ascending forwards; so, upon this Occasion, in seeking for the *Orifice* of the WOMB, she must not thrust her *Fingers* streight along according to the *Length* of the Body, towards the bending of the OS SACRUM; but guide them *upwards* from the *Bottom*, as if thro' the VAGINA, she would touch the *Navel*: For Thus her *Hand* being turn'd inward, and her *Fingers* tending towards the *Navel*, the *Orifice* of the WOMB lying directly in the way, she meets with it readily at first. Whereas they who go otherways to work, seek it in vain, and find it with Difficulty.

THIS Observation I thought the more requisite in this Place, because MIDWIVES not accurately understanding the *Situation* of the *Bones* of the PELVIS, think that the WOMB and its Neck or VAGINA reach according to the *Length* of the Woman, and make use of their *Hands* accordingly: First hurting the VAGINA and RECTUM in the Bending of the SACRUM; and then finding no farther *Passage* for their *Fingers*; but being altogether ignorant of the above-mentioned Method of finding the said *Orifice*, they are very often surpriz'd, fall into great *Confusion* for want of better *Instruction*. Whence I proceed to—



CHAP. XV.

Of the various Uses and Advantages of the TOUCH.

BY the TOUCH then, to be brief, the MIDWIFE gains the certain *Knowledge* of the following important *Heads*: viz.

* Chap. 7.

FIRST,

Ch. 15. *Advantages of the TOUCH.* 209

FIRST, Whether a *Woman* be with *CHILD* or not : For I must needs own, that some of the most certain *Signs of Pregnancy* are discover'd by the *TOUCH* ; since the *WOMB* shuts itself close up, immediately after *CONCEPTION*, and its *Orifice* becomes more *pointed, hard,* and *solid,* resembling (according to *Mauriceau's* just Comparison) the *Mouth* of a *Puppy* newly pupp'd.

BUT in time of the *INFANT's* ripening, this *Orifice* begins to *swell,* and becomes *softer, smoother,* and *thinner* than it was Before.

SECONDLY, The *MIDWIFE* discovers by the *TOUCH*, whether the *Time of BIRTH* is near at hand, and how near it is. However, in speaking to this Point, I desire to be rightly understood, not meaning *Miscarriages,* or *Illegitimate BIRTHS,* but only such as are intirely *Legitimate.*

AS then the *INFANT* advances in *Maturation,* so the *Orifice* of the *WOMB* from the *Third Month,* grows *smoother, thinner,* and *softer* ; and consequently the more *smooth, thin,* and *soft* it appears at any time afterwards to the *TOUCH,* so much the *nearer* draws on the *Time of BIRTH.*

IN *some Women,* this *ORIFICE* begins to open two or three *Months* before *BIRTH* ; and this *Aperture* enlarging itself by degrees, becomes soon as wide as a *Shilling-Piece,* when the *Motion* of the *INFANT* may be distinctly perceiv'd : And in *others* it is so much more enlarged, that one single *Pain* or two accomplishes the *BIRTH.*

BUT as all *Women* are not *alike,* so this *RULE* will admit of sundry *Exceptions* ; for *strong-body'd Women,* *Women of their First Child,* and those somewhat *in Years,* their *WOMBS* continue generally shut up to the last, and open not without the severest *Pains* : And not only so, but the *Orifice* of the *WOMB* differs also, in all difficult and *Preternatural Cases,* as well by reason of its own *oblique Situation,* as of the *INFANT's* ill *Posture.* For this Reason it is, that an *Experienced* and *Judicious Hand* is most requisite upon such *Occasions* ;

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since such an *One* can clearly distinguish, what *Another* cannot so much as guess at.

THIRDLY, The *MIDWIFE* immediately knows by the *TOUCH*, whether the Woman be taken with the real and genuine *LABOUR-PAINS* or *Not*. Which is a Point of the *greatest Moment*; since as it is of bad Consequence to *delay* the *BIRTH*, when the Woman is so taken, especially if the *WOMB* and *INFANT* be *Both* well situated, lest the *Pains* should vanish, and the Opportunity of *DELIVERY* should thereby be lost: so, on the other hand, to force a Woman to *LABOUR*, unseasonably, when but seiz'd with *Bastard-Pains*, is a most pernicious Thing.

BUT both these *Cases* too often happen, even to the *Hazard*, if not the *Loss* also of both *LIVES*; especially the *Latter*, when the *MIDWIFE* does not know how to distinguish these *False Pains*, either the *Cholick*, or other *Gripes*, from the *genuine Pains* by the *TOUCH*: As will be more fully and amply explain'd in the next following *Chapter*.

GIVE me Leave to say then, that *BIRTH* is not to be provok'd by any Means, until the *MIDWIFE*, by touching the *Orifice* of the *WOMB*, is certain, that the Woman labours under the *True Pains*; which is not to be judiciously suppos'd to happen before the *Seventh Month* at soonest.

BIRTH at that Time approaching, the Woman is afflicted with great *PAINS* in her *Groin*, *Loins*, and about the *Navel*, tending downwards with a depressing Force upon the *WOMB* and other *Private Parts*. But these *PAINS* are not continual, for they only go-off and come-on by *turns*; at which Time, by their violent *Depressure*, the *MIDWIFE* finds the *Orifice* of the *WOMB* open, or at least opening, and upon Renewal of the *PAIN*, she finds it more and more dilated and relaxed: whereas, on the other hand, when the *PAINS* are *Spurious*, they disperse themselves through the whole *Body*, as well as the *Abdomen*; and then the *WOMB* (as if it were securing itself) is found more closely contracted.

FOURTH-

Ch. 15. *Advantages of the TOUCH.* 211

FOURTHLY, It is likewise well known by the *TOUCH*, whether the *BIRTH* will be *Easy* and *Speedy*, or *Difficult* and *Lingring*, on several Occasions: 1. When the *MIDWIFE* finds the *Head* of the *INFANT* and the lower Part of the *WOMB* fallen into the *Cavity* of the *PELVIS*, so that *She* can touch it in the *Confines* of the *VAGINA*: 2. When the *Orifice* of the *WOMB* is very soft, thin, and wide-open, so that (through it) she finds the *Head* of the *INFANT* foremost, without any *Obstruction* by the *Arms* or *Umbilical Vessels* in the way, between the *Head* of the *INFANT*, and *Orifice* of the *WOMB*; as often happens: And, 3. When the *Humours*, by the *right Situation* of the *WOMB* and the *INFANT*, are found compressed into a *Flat Form*. I say, when Matters are found so (by the *TOUCH*) in this *Natural Posture*, there is no great doubt (under *GOD*) of a *Speedy* and *Easy DELIVERY*.

WHEREAS, on the contrary, when the *Orifice* is found by Experience *higher*, *little* or not at all open; *sharp*, *hard*, and *thick*, with the *Humours* pressed up length-ways: Then the *Case* is quite revers'd, and the *MIDWIFE*, if she understands her *Business*, must resolve to sweat at her *Work*.

NOW the Reason of such *Difficult BIRTHS* commonly proceeds, either from the *wrong Situation* of the *INFANT*, or *That* of the *WOMB*; the latter of which always occasions the greater *Difficulty*, especially when it is accidentally join'd with the *First*, to a vast Degree of *Aggravation*: Of which, as follows of course.

FIFTHLY, Another *Advantage* of the *TOUCH*, is the truly Knowing whether the *INFANT* be in a *Natural*, or *Preternatural Posture*. For the *MIDWIFE* finding the *Orifice* of the *WOMB* so open, that it admits one or two *Fingers*, she may distinctly feel the *Chin* of the *INFANT* in a *Natural Position*, lying forwards on its *Breast*, and the *Neck* in the *Middle* of the *Orifice*, or streight Before it; so that the *Head* being foremost and lowest within the *Borders* of the *Orifice*, the *Fingers* cannot pass any Farther.

212 *Various Uses of the TOUCH.* § IV.

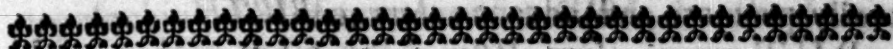
HOWEVER, supposing the *Clunes*, *Knee*, or *Elbow*, to present themselves *First* in the *ORIFICE*; It is true, they have their *Roundness*, but then they are easily distinguished from the *Head*: For the *Globular Part* of it is much *broad*er and *smoo*ther, than either *Knee* or *Elbow*, and *hard*er than the *Buttocks*; which *Fleshy Part* is soon distinguished from the *Bones*, or the *soft Membrane* betwixt the *Bones* of the *HEAD*.

BUT as a capable *MIDWIFE* can hereby distinguish all *These* with *Facility*, even before the *Waters* begin to flow; so I need not mention the *Hands*, which distinguish themselves by the *Fingers*, as the *Feet* do, by the *Toes* or *Heels*; and the *Navel-string* discovers itself by its *Softness*, *Thinness*, and *Roundness*: All which, however yet, are more easily known when the *Membrane* is broke, and the *Waters* have actually flown. For the *Parts*, which were before covered with this *Membrane*, lie now naked in the *ORIFICE*: Hence it often unluckily happens, that *few MIDWIVES* make an exact *Scrutiny*, about the *Situation* of the *INFANT*, till this Time of *FLOODING*; erroneously thinking they are then *soon* enough, which is an unaccountable *Mistake*; as will hereafter abundantly appear.

SIXTHLY, It is perfectly known by the *Touch*, whether the *WOMB* be in a *Natural* or *Preternatural Posture*, as is plainly taught more at large in the foregoing *Chapter*.

FINALLY, in short, we most assuredly know by the *Touch*, what is proper to be done in all *Preternatural Cases*, upon giving *Assistance* both to the *MOTHER* and *INFANT*; as hereafter will fully appear by a more copious *Dissertation* to that Purpose.





CHAP. XVI.

Of the Genuine and Spurious LABOUR-PAINS.

THE sole Reason I add this Chapter, is, because our common *MIDWIVES* are so often mistaken, and do so frequently err in this *Point*, having no thorough-pac'd *Knowledge* of either sort of these *PAINS*: For when she comes to a Woman, taken ill with severe *PAINS* in the *Belly* or *Loins*, being ignorant of the accurate Nicety of the *Touch*, she presently concludes *These* to be the true labouring *PAINS*, because they indeed often resemble them very much; and she farther, finding perhaps the *ORIFICE* a little relax'd and open, expects it to enlarge to her Satisfaction. Which, however, not answering her Hopes, nor the *PAINS* encreasing; she endeavours by stimulating *Medicines* and other finistrous *Means*, conformable to the perverse *Rules* of her *PRACTICE*, to raise and provoke *Them*: So that this, in short, is the *Cause*, not only of many an untimely *BIRTH*, but also too commonly of many an untimely *DEATH*.

NOW the *Wind-Cholick*, either in the Lower or Upper Part of the *Belly*, occasions frequent racking *PAINS*, as do also the *HUMOURS* by Virtue of their *Acidity*, corroding the *Intestines*; and these *Mordacious PAINS* are generally attended with a subsequent *Looseness*. In which *Cases*, I always use proper mitigating and repelling *MEANS*, (such as a *Carminative* and *Emollient Clyster*, &c: upon extreme Occasions); which proper *Means* infallibly answer my *Ends* in either Condition. For if the *PAINS* that afflict the Woman are *Spurious*, They are thereby suddenly laid and repressed;

and if *Genuine*, These very self-same *Means* most effectually promote and advance them to *BIRTH*.

BUT again, *some Women* are taken with a mix'd Complication of *Genuine* and *Spurious*, or *Real* and *False PAINS*, that are properly called *Tergiversant*; which one Moment seem to depress the *BIRTH*, and encourage the Woman to *LABOUR*; and the next convert themselves into scatter'd *CRAMPS*, and other contracting *PAINS*: And these dispersed *Bastard-Pains* are always more pernicious to the Woman, than the most severe *natural LABOUR-PAINS*: This Case is also easily distinguished by the *TOUCH*; which done, the *false wandering Pains* are first to be assuag'd or carry'd off, before the *BIRTH* can well succeed.

NOW, as to the real *Natural* and *Genuine Pains*, They are, (methinks) in short, easily to be judged of by the *Manner* in which they always seize the *Woman*; viz.

I. FROM the *Navel* downwards to the *Grain*, reflecting towards the *Loins*, with a depressing and bearing down upon the *WOMB* and *PRIVITIES*, as occasionally mentioned in the preceding Chapter: And tho' These are intermitting (not continual) *PAINS*, yet their Severity and Violence extenuate the *Umbilical*, and protuberate the *Genital Parts*, opening and distending the *Passages*. But besides, as the *Blood* is exagitated and fermented, it excites a Velocity of *PULSE*, and a *Redness of Face*; whilst the *BELLY* waxes *Fiery-hot*, and a *Feverish Shivering* or *Trembling-Fit* invades the whole *Woman*, especially the inferior *Limbs*, but without any *Frigidity*.

II. THE *Membranes*, with their *Contents*, which *MIDWIVES* commonly call the *Gathering of the Waters*, now present themselves at the *Orifice* before the *Head* of the *INFANT*, resembling (to the *TOUCH*) *Abortive Eggs* without any *SHELL*: upon These breaking, the *Waters* begin to flow; at first more sparingly, but by and by more profusely, and at last a *waterish Blood* follows, when a *GIRL* is to be born; or a *pure-colour'd Blood*, when a *BOY*:

Ch. 16. *Spurious* LABOUR-PAINS. 215

BOY: But I also farther distinguish the *BIRTH* of an approaching *BOY* from *that* of a *GIRL*, by the *Labour-Pains*; for in the *first Case*, these are far more severe and penetrating, and accordingly the *BIRTH* much more expeditious, than in *Case* of a *GIRL*: In which (however) the *PAINS* are more constant and regular.

III. **AND** now, at last, the *OSSA COCCYGIS* and *COXENDICIS* begin to yield, and give way; while the *Bottom* contracts, the *Orifice* of the *WOMB* opens, and the *VAGINA* dilates itself fully: So that *now*, and not *before*, most of the above-said *Signs* evidently appear, I give my patient *Woman* the *WORD* to *Labour* her best; because if she begins *sooner*, she too much debilitates both *Herself* and fatigues the *CHILD* before its due Time.

MOREOVER, I have seen *some Women* in *LABOUR* taken with a sudden *Vomiting*, that I suppose proceeded from the *natural Sympathy*, which the *STOMACH* bears to the *WOMB*: Whereupon it discharges a certain *Viscous Matter*, which I have always observ'd, upon its turning *Bloody*, to presage an easy *LABOUR*, and an expeditious *DELIVERY*.

FARTHER yet, the *MIDWIFE* must always remember, that when the commenced *real PAINS* of *Labour* chance to cease, the *Woman's Labouring Efforts* must also terminate with them in *Course*: And as this *Case* denotes a *Debility* of the *Expulsive Faculty*; so if it be not both *Timely* and *Judiciously* assisted, It may prove of the worst of *Consequences*. In a word, so much I have thought previously *necessary* to my *Purpose*, before I enter upon —



C H A P. XVII.

Of the True Method of LAYING the Woman.

UPON this Occasion, the *MIDWIFE* ought, in the first place, carefully to observe the *CONTENTS* of the foregoing Chapter; and, Secondly, To follow this general *RULE*, which I lay down out of absolute *Necessity*: viz. *That the Woman be delivered, and the Child brought forth into the World as soon as possible after FLOODING*; and that because the *WOMB* immediately, after *This* is over, falls, shrinks, and contracts itself again, and of Consequence compresses the *BIRTH* very closely.

BUT in order to effect *this* Matter, as much depends upon the right *Situation* or *Placing* of the *WOMAN*; so I advise, in the first place, that, as soon as the *WATERS* begin to flow, *She* be commodiously placed either in a *BED*, *CHAIR*, or *STOOL*, properly adapted for that Purpose, and laid with great Skill and Judgment, not too *Supine*, nor altogether *Upright*; but (as it were) between a *standing* and *lying Posture*: having her *Back* a little erected for the freer *Respiration*, and the better *LABOUR*; with her *Thighs* at a due Liberty and Distance, only separated as much as possibly they may; her *Knees* a little elevated; her *Feet* stayed against something *Firm*, and her *Heels* bending *Backwards*.

HOWEVER I must farther observe in this place, that the *POSITIONS* of parturient *Women* are very various and different; some doing this *Work* (as above) in a *Bed*, others in a *Stool*, and some again I have seen deliver'd *standing*, and *leaning* only a little *Forwards* upon the *Bedstead*. Hence, I say, that the *POSTURES* in time of *LABOUR*, differ not only according to the

Necessity,

Ch. 17. LAYING the Woman. 217

Necessity, but also somtimes (in *Natural Easy Cases*) according to the *Custom* of the WOMAN.

BE that as it will, I would advise all *Labouring Women*, FIRST to make *Choice* of a dextrous and ingenious *MIDWIFE* to attend them at that *critical Juncture*, since the poetical *Proverb* (*Accidit in puncto, quod non speratur in Anno*) holds as *True* in *BIRTH* as in any *Case* I know; for some *Women* after having sundry repeated *Natural easy BIRTHS*, come at last to suffer by some difficult or *preternatural Accident*, which may happen in a *Moment of Time*.

SECONDLY, I would advise all *parturient Women*, to give themselves over into the Hands of such a *MIDWIFE*, to be universally *advised* and *entirely* directed by her *Conduct*: And thus being under the watchful *Eye* and diligent *Care* of the prudent and skilful *MIDWIFE*, the good *Woman* in her *Travail* has Nothing else to do (besides following *Instruction*) but only to assume *Courage* and *Resolution* to assist her own *PAINS* as she feels them coming on, by *drawing* and *holding* her *BREATH*, as if she was to *sob* or *sigh*, by contracting the *MUSCLES* of her *Belly*, as much as possible; infomuch that the forcible *Impression* may bear alike upon each side of the *WOMB*, and depress the *Diaphragma*, which (of *Consequence*) suppresses the *WOMB*. But then again in this *Case* I would observe briefly, that she is strictly to regard the *TIME* of a *right true Travail*, as at that *Juncture* only to use these her best and strongest *Endeavours*.

BUT now to return to the *Duty* of the attending *MIDWIFE*; as occasion requires, She is to direct her *WOMAN*, either to *lie*, *sit*, *stand*, or *walk*, keeping her always *Warm*, and as close *cover'd* in *Time* of *Touching* as possible; for the least *Breath* almost of *Cold Air* may occasion *Convulsions*, and other most dangerous *Accidents*.

BECAUSE I have often observ'd *Women* to be *Costive* and bound in their *Bellies* upon this *Occasion*, which is of dangerous *Consequence*, I would therefore advise

218 *Of the True Method of* Sect. IV.

advise in this Case to adhibite a gentle *Emollient Clyster*; not only that (by the *RECTUM* being so emptied) there may be the more *Room* for the necessary *Dilatation* of the *PARTS*, but also that the unfortunate *Effects* of *COSTIVENESS* may be timely prevented: And the same *Means* I would use, in Case of *Heavy, Dull, or Languid PAINS*; ordering the *Clyster* only in this Case to be made a little more *Carminative*; as mentioned in the preceeding Chapter.

BUT this however I would have done in the Beginning of the *Travail*, and reiterated (if need so require) before the *CHILD* be advanced too far *Forwards*.

NOW the *MIDWIFE* finding all things in a *Natural Posture*, and the *CHILD* in a *Forward way*, is to advance her *Hand* skilfully, (which at every individual *Touch* ought to be fresh-anointed with the *Oil* of white *Lillies, Roses, &c.* or *Fresh-Butter, Hogs-Lard*, or whatsoever of this Nature is readiest at Hand) entering the *ORIFICE* with the *Fingers-Ends*, dilating it by opening them gently as the *PAINS* come on: Thrusting gradually the *Sides* of the *ORIFICE* towards the *OCCIPUT* or *Hinder-part* of the *CHILD's* Head, and moistening these *Passages* also with what she uses for her *Hands*.

WHEN the *VERTEX*, or *Crown of the Head*, appears without the *Privities*, the *MIDWIFE* most commonly calls out or says the *CHILD* is in the *Passage*; and the *parturient Woman* then finding these *Parts* (as it were) scratch'd or prick'd with *PINS*, often groundlessly imagines that her *MIDWIFE* deals roughly by Her with *Nails* and *Fingers*; whereas that *Pungency* is only occasioned by a violent *Distension*, or perhaps a *Laceration*, sometimes inevitably made, by the *BULK* of the *Head* of the *INFANT*.

HOWEVER that be, and whatever the *Woman* may think or say, the *MIDWIFE* is only to mind her own *Business*, and discharge her *Duty* faithfully upon this *CRISIS*; in order to which, it is now *High Time* that

that she also place herself in a convenient *Posture* to receive the *BIRTH*: Which (when advanced as far as the *EARS*, or *thereabouts*) she is to take gentle hold of, by *both Sides* of the *HEAD* with *both Hands*; so that by this *Means* she may be ready and able, against the first *Onset* of the next good *PAIN*, to draw forth the *CHILD*. In doing whereof, she must take special *Care* that the *NAVEL-STRING* be not entangled about the *Neck*, or any other *Part*, lest the *Secundine* or the *Womb* itself thereby suffer *Violence*, and consequently cause either *Flooding*, or break the *String*, which may render the *Case* dangerous and the *BIRTH* difficult.

BUT in thus attracting the *INFANT*, the *MIDWIFE* must carefully observe, not to draw the *HEAD* straight-forwards, but move it gently from *Side to Side*, that the *Shoulders* may the more readily and easily take *Place*: For *these* must immediately follow the *HEAD* without *Loss of Time*, otherways the *BIRTH* may be strangled in the *Passage* by the *WOMB* shutting upon its *Neck*: To prevent which *Tragical Catastrophe*, the *Cunning Expert MIDWIFE* directly slides in her *Fingers* under the *Arm-Pits*, and then draws discreetly the *BODY* forth without any *Difficulty* or *Danger*.

THUS, in fine, We have discreetly deliver'd our good *WOMAN*, in *Case* of a *Natural Easy Birth*; but on the other *Side*, in *difficult* and *Preternatural Cases*, the several *Conditions* and *Circumstances* will mightily differ from the *Beginning*; because in *these* the *PAINS* are not always sufficient to produce the *BIRTH*. Hence it is sometimes more convenient for the *WOMAN* to be *Passive*, rather than *Active*; especially when the *POSITION* of either the *Womb*, or the *Infant* is *Preternatural*: For then it is the *MIDWIFE's* whole *Business* to *labour* more than the *WOMAN*; then her ingenious *Touch* is of infinite *Service* to the *PAR-TURIENT*, since by that only she can distinguish the *Degree* of the *Ill Situation* whether of the *CHILD* or the *WOMB*. Which being dextrously done, *She* is in the next *Place*, prudently to consider what kind of *POSTURE*,
Sitting

Sitting or Lying, is most convenient, that she may the better discharge her own good *Office and Duty*: Of which I shall treat more particularly in the following respective *Chapters*; since it still remains here, by the way, that we also deliver our above-mention'd *Woman* of her *AFTER-BIRTH*, &c.



C H A P, XVIII.

Of the Method of Extracting the SECUNDINE, &c.

AFTER all, to perfect or finish the *Woman's DELIVERY*, it still remains that *She* be freed of her *AFTER-BIRTH*, or *SECUNDINE*. Now this I advise to be done with all imaginable Speed, after the *CHILD* is born, even before the *NAVEL-STRING* is cut: Because the *WOMB* immediately contracts itself, so that *This* cannot be accomplish'd afterwards without great *Difficulty*.

HOWEVER, I know beforehand, that my Method of performing this Work, which I am about to lay down, will be thought a strange *Innovation* in *Midwifery*; but without any regard to that, in speaking to this *Point*, I shall *First* suppose this *Body* to be already loosen'd from the *WOMB*; in which *Case* the *MIDWIFE* has nothing to do, but to draw the *STRING* gently, which she holds in *One Hand*, twisted twice or thrice a-round one or more of her *Fingers*, while she passes the *Other Hand* into the *WOMB*, following always the *STRING* (as her *Guide*) to the Place where the *BURTHEN* lies: And where, as in this *Case*, it naturally presents itself to the *ORIFICE*, *She* stretches her *Hand* up length-ways, taking hold of it betwixt her *Fingers*; and thus, by the Assistance of the *other Hand* always attracting

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attracting softly the *STRING*, she brings it at last most commodiously away.

SECONDLY, I shall suppose, in the mean Time, this *Body* to continue *fixed* to the *WOMB*, either in *Part* or in *Whole*: In which *Case*, if in *Part*, the *MIDWIFE* finding by the *Touch* the other *Loose Part*, moves her *Hand thither* betwixt *That* and the *WOMB*, shaking or stirring it gently *backwards* and *forwards*, until such time as it is entirely *loosen'd*, when she proceeds as *Before*: But if in *whole*, and that it sticks very *Fast*, then the *MIDWIFE* places her *Hindmost Fingers* on its *Exterior Part* against the *WOMB*, and her *Fore-Fingers* against the *Inside*; so that thus by pulling softly on all *Sides* quite round, it is easily *loosen'd* and *extracted* as Above.

THIRDLY, I shall suppose this *SECUNDINE* also (tho' *loosen'd* successfully) to be so very *Large*, that it cannot pass through the *ORIFICE*: In this *Case*, I only desire my *deliver'd Woman* to concur with me, and behave herself as if she was forcing or expelling the *CHILD*; for then whilst I at the same time gently attract the *STRING*, it immediately follows.

I very well know that Mr. *Mauriceau* and all others either *in* and *before* his Time, teach quite different *Methods* of extruding the *AFTER-BIRTH*; such as are by the *WOMAN's* blowing in her *Fist*, putting her *Finger* in her *Throat*, and the like; which when the poor *Patient* has done, and stood them All out *ineffectually*, together with their many other various *uncertain Experiments* to no *Purpose*, and none of them have succeeded (as it has often happen'd): Then at last, and not till then, they direct the *aforsaid Method* of the *HAND* to be used. But now-a-days, we know better Things than to run such indiscreet *Risques*, when we may go a safer Way to work; or to make use of *Uncertainties*, when we know more *Infallible Means*. As I shall, I hope, make this *Method* plainly appear to be; notwithstanding all the great *Cautions* of those *Authors* publish'd, and the *Difficulties* they make of it in our Practice of

MID-

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MIDWIFERY: And that I will endeavour to do from the following *Considerations*, viz.

I. IF after the BIRTH of the INFANT, the *Hand* be presently pass'd into the WOMB, it slips in together with Part of the *Arm*, as far as is needful, without the least *Trouble* or *Inconvenience* to the WOMAN; the WOMB as well as its ORIFICE continuing always, so long as *this* may be done, sufficiently *Open*: And thus the BIRTH may be skilfully accomplished or perfected, as it were, in an *Instant*; while *others* (trying their vain *Projects*) spend many trifling *Hours* about it, and it is *ten to one*, if at last they succeed.

II. BY these means, moreover, I presently know whether there be *One*, *Another*, or *More* INFANTS to follow; whether there be a *dead CHILD*, *false CONCEPTION*, or any *Foreign Body* whatsoever, lodged in the WOMB; whether any *Part*, or *Pieces* of the SECUNDINE, or *Membranes*, or *Lumps* of *Clotted Blood*, be left behind and retain'd: All which I propose to bring away either *before*, or *after* the SECUNDINE, as *Occasion* serves, with the greatest *Safety* as well as *Expedition*.

III. AFTER having thoroughly searched on all *Sides*, and thus duly cleans'd the WOMB, by continuing my *Hand* in it, until it contracts about that *Hand*, first *above* towards the *Bottom*, and then *below* towards the *Orifice*, which happens very quickly: I find myself *then*, by great *Experience*, able to rectify all *Oblique* and *Preternatural Situations* of the WOMB; as in *Case* of a PROLAPSUS, (or *Falling down*) I can hereby move it carefully *Up* again: If it lies too much *Backwards*, by elevating it while it gradually contracts, I can easily bring it *Forwards*, to its *Natural Position*: If it hangs too much *Forwards*, I can quickly reduce it *Backwards*: If it tends to *either Side*, I can directly move it to its *Center*. And thus, in short, I hope I may be allow'd gently and gradually to restore the WOMB to its *Natural Place* and *Posture*, how *Preternaturally* and *Obliquely* soever its *Situation* may happen to be disorder'd.

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○ NOW This being so successfully done, I can, in fine, assure and secure any *Lying-in-Woman*, that her WOMB is both duly *purg'd*, and naturally *shut* again as it ought to be ; which I take to be the greatest *Satisfaction* the CHILD-BED-WOMAN can conceive in her Condition. Whereas,

IV. THEY who leave all these Things to mere NATURE, risque their PATIENT's future *Welfare*, and very often her *Life* too, as innumerable *Tragical Examples* witness : For NATURE itself most particularly requires our special *Assistance* in this *Case*. But (according to their indifferent *Notions*) it is *Time* enough to assist NATURE, when it is found *Deficient* ; and then, in *Case* of EXTREMITY, they unanimously agree that there is no other way to help or save the *Woman's LIFE*, but by this METHOD of *Manual Operation*. To which I answer, that NATURE operates not in an *Instant*, but (in all *Cases*) requires a competent *Time*, to discharge its respective *Functions* ; and being left too long to itself, for want of Help, is many a-time (by intervening *Accidents*) found at last *Incapable* : Upon which, then *They*, beginning their Endeavours to *second it*, generally come too late. For if the *Case* does not prove to be past all *Remedy*, it is at least (by this *Protraction of Time*) often rendred not only *difficult*, but also *desperate* ; as will evidently appear in the *Case in hand*, from what follows, viz.

I. WHILE *They* (conformable to the general and universal *Practice* of common *MIDWIVES*) expect the *Performance* of NATURE, or the *Success* of their *trifling Means*, in the mean time, the *Orifice* of the WOMB is so closely *shut up*, that in the space of an Hour or two, it cannot be *penetrated*, without renovating the most severe racking PAINS to the *Woman*, who (perhaps) has been sufficiently spent before, by the DELIVERY of her INFANT, and is now consequently incapable of standing out the renew'd PANGS : whereby of course *She* must succumb at last, and give up the *Ghost*, for want of *Timely Help* ; as innumerable *Instances* confirm for an undeniable Truth. But, II.

II. SUPPOSING the *Woman* to be able to undergo the *PAINS*, yet the *WOMB* is however contracted, and the *SECUNDINE* bound so close up, that this *Body*, which before adher'd *Cake-ways* to its *Bottom* in a *smooth* and *broad Form*, is now so squeez'd into a *small* and *long Figure*, that it is even now a *Difficulty* next to *Impossible*, to reach the *Bottom* of the *WOMB*, and still a *harder Task* to extract an entire *Secundine*, without prejudicing the *WOMB*.

III. THEY who altogether neglect *Manual Operation*, may (I confess) sometimes deliver their *WOMAN*, when *Success* accidentally answers their *WISH*: But without this *Mean*, they cannot possibly restore a *prolaps'd*, *fallen-down*, or an *obliquely situated WOMB*, to its *natural Position*. No, to the *Contrary*, Nothing is more common among ignorant unwary *MIDWIVES*, than to *invert* and *draw down* the *Bottom* of the *WOMB* itself, by pulling the *Navel-String*, as they foolishly intend by *means* of it only to extract the *SECUNDINE*. Neither does the *Mischief* always end here, but mistaking this *Body*, when so found by their *Touch*, they immediately imagine it to be the *Head* of another *INFANT*; and persevering in this *false Conjecture*, they manifestly expose the poor *WOMAN* to the *Hazard* of her *Life*. Neither,

IV. POSSIBLY can *They*, without the *Use* of the *HAND*, so cleanse the *WOMB* of the *Reliques* of the *SECUNDINE*, which may stick up and down to the *WOMB*; or of the *Pieces* or *Parts* of the *Membranes*, which may remain there; or of the *clotted Blood*, which commonly stays behind. From hence therefore it necessarily follows, that (without the *Means* of the *HAND*) *They* cannot be *Positive* or *Certain* in any *Circumstance*, relating to the *True State* of the *Woman*. *They* can neither assure *Herself*, nor those concern'd, that her *WOMB* is duly purged; if (perchance) of the *SECUNDINE*, which they may guess at by the *Sight*, yet not of the *Fragments* of the *Membranes*, nor of the *clotted Blood*, which they can never be certain of, but by this

METHOD :

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METHOD. I mention these *Things*, because the *least Part* of EITHER being retain'd, or left *Behind* in the WOMB, may cost the WOMAN her *Life*, as innumerable *Precedents* do testify. Nor,

V. CAN they possibly secure the *Woman*, that her WOMB is *duly shut and contracted*; much less can they (without these *Means*) affirm that it is orderly *situated* in its *proper natural CENTER*: By the Neglect or Fault of which *Condition*, she is not only rendred *Barren* afterwards, but also most infirm all the *Days* of her *Life*.

BUT notwithstanding how *plain* and *easy* soever, I have endeavour'd to make out the above-mention'd METHOD, I would over and above recommend *It* only to the *judicious* and *well-qualify'd MIDWIFE*; by no *Means* to those that are *ignorant* in the *Parts* of GENERATION, nor to any *stiff clumsy-fisted Person*: And that for the *Two following Reasons*; viz.

I. LEST the STRING (by some *Accident* or other) should break, and she, missing this *Guide* to the SECUNDINE, should take *One Part* for *Another*, and consequently *dislodge* the WOMB instead of the AFTER-BIRTH; which has undoubtedly often happen'd by such blind DOINGS, notwithstanding this very remarkable *Difference* between *Them*, that the SECUNDINE distinguishes itself from the *Other*, by a great many little *Inequalities* on the *Outside*, occasion'd by the *Roots* of the *Umbilical Vessels*. And,

II. LEST she should unwarily either *break, tear, or scratch* the WOMB, with her *thick, fleshy, rough, and rigid HAND*, or with her *stiff and crooked FINGERS*: Either of which *Accidents*, may give ORIGIN to various *Misfortunes*; such as a PROLAPSUS, or *Falling-down*, a *preternatural Flooding*, an *Inflammation*, or *Gangrene*, &c.

BUT we will now, in fine, suppose that the *Ingenuous MIDWIFE* has after All discharged her faithful *Duty* in these *Respects*, with *Care, Lenity*, and good *Conduct*, as well as with great *Art* and *Judgment*: In which *Case*, it only remains, that she take the necessary

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and usual *Care* of the CHILD-BED-WOMAN and INFANT ; as hereafter will be directed in the respective *Chapters* of SECTION VIth, to come.

IN the mean Time, these curious *Things* being thus amply premised in this Place, the READER has no more superfluous *Repetitions* to expect concerning *them* in the following *Performance* : And therefore with these *Preliminaries* I conclude my *Fourth SECTION*.



SECT.



S E C T. V.



C H A P. I.

Of BIRTH.



A N's appointed Time may as reasonably allude to his *BIRTH*, as to his *DEATH*; His *Days* and his *Months* (mentioned by holy *JOB* *) being as much determin'd, naturally speaking, in the *One*, as in the *other Case*.

THE INFANT thus being thoroughly ripen'd, and arriv'd to full *Perfection* of *MATURITY*, the *Hour* approaches, in which it scorns any longer *Confinement* to such narrow *Bounds*. For the *Animal Spirits* being discontented, for want of due *Liberty* and free *Motion*; the *Vitals*, for want of *Refrigeration* and *Refreshment*; and the *Natural Spirits*, for want of sufficient *Respiration* and *Nutrition*: They all concur to make a *Commotion*, and (as it were) a victorious *Revolt* or an *Effort* pushing for *CONQUEST*.

* Chap. xiv. 5.

THE *INFANT* being thus irritated, immediately shakes off its *Fetters*, breaks the *Ligaments*, rents the *Membranes*, thrusts through the *Enclosures*, and makes its most vigorous *Attempts* to enlarge itself from the *Prison* of the *WOMB*, into that of the *WORLD*.

WHICH *Enlargement* depends very much indeed upon *NATURE*, but more particularly on the *Strength* and *Vigour* of the *INFANT*, seconded by a peculiar *Faculty* of the *WOMB*, that by degrees is drawn-in to *Consent*, and *Endeavour* to dislodge and expel its troublesome and obstreperous *GUEST*.

NOW the *INFANT*, during the whole *Time* of *Gestation*, adhering to the *WOMB*, by the *Umbilicals*, as the *Fruit* does to the *TREE* by the *Stalks*, upon this *Occasion* distends the *WOMB*, and having valiantly turn'd itself, breaks the *Membranes*, and dissolves the *Ace-tabula*: When also the *Orifice* of the *WOMB* is competently open'd; and That (in *Avicenna's* memorable Words*) at the *Command* of the great *GOD*. Upon This the *Waters* flow; the *Umbilicals* parting from the *WOMB* and their proper *Vessels*, and the *Veins* and *Arteries* of the *SECUNDINE* severing themselves, in like manner; As ripe *Fruit*, or the *Leaves* of *TREES* in *Autumn* fall-off naturally, or break from their proper *Stalks*.

THUS the *WOMB*, exerting its extensive and expulsive *Faculties*, excludes the Legitimate *INFANT*: To which great *Work* also, the *Painful Labours*, and *Labouring Pangs* of the *MOTHER* (in the manner they happen with the contracted *Spirits*, depress'd *Midriff*, and compress'd *Muscles* of the *ABDOMEN*) contribute not a little *Help*. And, in short, this stupendous *Work* or *Action* is called *BIRTH*; and is nothing else, but an *Exclusion* of the mature *CHILD*.

WHICH *BIRTH* proceeds either from *Causes* of the *INFANT*, or from *Causes* of the *WOMB*: Of the *INFANT*, because through the strict *Confinement* of a narrow *Place*, and Defect † of *Aliment*, and *Refrigera-*

* Lib. 3. Fen. 21. Tract. 1. cap. 1.

† Hipp. de Nat. Puer.

tion, It kicks and spurns for its EXIT: Of the *WOMB*, because about that *Time*, being overloaded and agrieved by the *Bulk* and *Weight* of the *CHILD*, it endeavours, by its own expulsive *Faculty*, to disburthen itself, and propel or drive it forth to the utmost of its Power. For—

A S it is the proper *Function* of the *STOMACH*, to eject the *noxious Humours* by *Vomit*, and deject the *Natural Excrements* into the *INTESTINES*; as it is also the *Office* of the *RECTUM* to evacuate the *Fæces*; as likewise the *Profusion of the Urine* is the *Action* of the *BLADDER*; as again the *Extrusion* of all *fuliginous Matters* is the *Work* of the *HEART* and *LUNGS*; and as, at last, the *Effusion* of the *Genital SEED* (in *Venery*) is the *Operation* of the *Virile TESTICLES*: So the *Exclusion* of the *Mature FOETUS* is the *Eighth* † and last proper *Action* of the *WOMB*; which is justly deem'd the only *Primary Agent* and *Active Cause* of *BIRTH*, as the excluded *FOETUS* is the *Passive*.

B U T this *BIRTH* is not always *Uniform*; for as it differs in *Time*, so it does also in *Manner*: From hence we have with respect to the *TIME*, *Legitimate* and *Illegitimate BIRTHS*, which being already discuss'd *, I shall resume nothing by way of *Repetition* in this Place: And with respect to the *MANNER*, we have also two general *SORTS*, namely, *Natural* and *Preternatural BIRTHS*; which together with their particular *Branches*, I am now to enter upon, without any farther *Digression*.

† Sect. IV. Chap. 9.

* Sect. III. Chap. 31, 32, &c.





C H A P. II.

Of Natural BIRTHS.

BY a *Natural BIRTH*, I mean nothing else, but that which is perform'd without any *ART* or *Artificial Means*; which *BIRTH* (of itself) strictly observes the Order and Appointment of *Nature*: That is, in the *INFANT*'s coming *Head foremost*, *Face downwards*, *Arms following*, extended (along the *Sides*) strait *upwards*, towards the *Thighs*.

HIPPOCRATES's *Reason* †, in short, for the *CHILD*'s thus turning and presenting itself, is very good; *viz.* Because of all the *Parts*, the *HEAD* is the Heaviest about the Time of *BIRTH*, as appears more at large from *Sett. I. Chap. 10.*

BUT besides this Argument, I believe *Wise Nature* has also order'd it *thus*; because *This* indubitably is the most *safe* and *easy Manner* of *EXITION* both for the *Mother* and *Infant*: Insomuch that by all other *Methods* of *EXTRACTION*, *One* or the *Other*, and sometimes *Both Lives* are, or may be, endanger'd, if not very dextrously perform'd, according to the best *Laws* of *Art* and *Judgment*, as by and by will more manifestly appear.

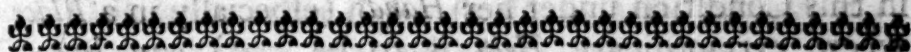
BUT because I have generally observ'd most *Authors* to treat promiscuously of *BIRTHS*, not only accounting some, which are really *Natural*, to be *Preternatural*; but also both handling and writing of them as *such*, only because attended with some difficult Circumstances: I shall (in this place) take Leave to make an agreeable *Distinction* betwixt the *different Sorts* of *Natural BIRTHS*, in order to make every thing the more clear and obvious to the *Conception* of the *READER*. Upon which Account therefore, I shall reduce *These* to two

† De Nat. Puer.

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Heads, and that under the *TITLES* of *Natural Easy*, and *Natural Difficult BIRTHS*.

THE *FIRST* of which I include in this *Chapter*; but because in this *Case* (which I call a *Natural Easy BIRTH*), *Nature* alone always performs the *Work*, without any *Help* of *ART* or *Artful Means*; and because also the *MIDWIFE* (upon this *Occasion*) has but little or nothing to do, save only to observe the concluding *Chapters* of the last preceding *SECTION*; and upon receiving the *CHILD*, immediately to manage and provide both for the *MOTHER* and the *INFANT* according to their several *Necessities*, as hereafter shall be inculcated in the respective *Chapters* of the next following *SECTION*: I say, for these *Reasons*, I have no Room here to insist farther on this present *HEAD*; wherefore I proceed in course to the *SECOND* Sort of these *BIRTHS*. Namely—



C H A P. III.

Of *Natural Difficult BIRTHS*.

THO' indeed every *difficult Expulsion* of the *INFANT*, from whatsoever *Cause* it may proceed, is verily a *Difficult BIRTH*; yet I shall here distinguish a *difficult One* from a *preternatural BIRTH*; not only that I may thereby, the better avoid the *Confusion* which others have led themselves into, by treating of *BOTH* promiscuously, but also that my *Method* may tend the more to the peculiar *Benefit* and *Advantage* of the *Ingenious READER*.

WHEREFORE I call that a *Difficult BIRTH*; where, notwithstanding the *Figure* and *Dimensions* of the *CHILD*, answer in all respects to its proper *natural Posture*, in a *Perpendicular WOMB*, duly situated, yet the *Exclusion* of the *INFANT*, is retarded, by some certain *Opposition* or *Difficulty*. From hence proceeds

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the real *Difference* between *This* and the *Natural Easy BIRTH*, forasmuch as *This* always requires *less* or *more* skilful *Assistance*, according to various *Circumstances*, and *That* but *Little* or *none* at all.

NOW the *Causes* of *Difficult BIRTHS* are very various, and according to the *Nature* of them, *This* sometimes proves equally as dangerous as the *Preternatural*; but when so it happens, I have commonly observed the *Fault* to be, for the most Part wholly owing to the arrogant *MIDWIFE*, who either knew not how to remove the *Cause* and facilitate the *BIRTH* herself, or delay'd applying betimes to some *Abler Person*, for the *Relief* and *Safety* of her Labouring *WOMAN*.

HENCE arises a Fundamental MAXIM, which I would lay down for a memorable *Rule* to all such IGNORANTS; that no *MIDWIFE* ought to keep a *WOMAN* in this Condition under her *Hands* (especially in a *Place* where extraordinary *Help* is to be had) any longer, than she finds the *Advances* of *BIRTH* answer to the Proportion of *Time* spent about it: But forthwith she ought to deliver her up to the *Care* of the more Skilful and Judicious *Practiser* in this ART. In which *Case*, of *Compliance* and *Condescension*, she is to be highly commended for her tender *Care*, and cautious *Concern*; whereas upon acting contrary to this good *Rule* out of *Pride* or *Obstinacy*, and the fatal *Accident* ensuing, I have known the *MIDWIFE* to have been try'd for her *Life* in the City of *Venice*.

BUT that I may render every thing *Plain* and *Easy* to the *Apprehension* of the weakest *READER*, by reason that the *Causes* of *Difficult BIRTHS* are both *different* and *numerous*, I shall again reduce them to *Two CLASSES*; namely, *External* and *Internal*: The *External*, I shall include in the next following *Chapter*; but the *Internal Causes*, requiring a more *Curious* and *Extensive Dilucidation*, may (I hope) be pertinently divided into a *Threesfold Difference*; viz. *Causes* of the *MOTHER*, of the

IN

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INFANT, and of the PASSAGES; which I propose to handle particularly, all in their due Order. But First,



CHAP. IV.

Of Difficult BIRTHS, proceeding from External Causes.

IN all difficult Cases, the CURE or Remedy chiefly depends upon the certain Knowledge of the Nature of the Case, and the Cause of the Difficulty: Since (according to Celsus *, that noble Roman Physician) it is not to be suppos'd that He should know how to remedy Diseases, who knows not their Original Causes.

FOR as in other Cases, so also in MIDWIFERY, the Cause being known, the Difficulty is easily remov'd; but especially when it only proceeds from External Causes, it requires no great ART, save only the MIDWIFE's particular Notice and discreet Animadversion.

A S, FIRST, for Instance, in Case of any Difficulty, occasion'd by an Intemperature, or inclement Constitution of WEATHER and AIR; the more adverse or inclement the WEATHER is, the more tender Care ought to be taken of the Labouring Woman: Namely, in SUMMER, when the Heat scorches so much as to dissipate the Woman's Strength, she ought to LABOUR in a Ground-Chamber backwards, which may be strewed (for the Purpose) with Vine or Willow-Leaves, Rose-Water, and a little Vinegar; as it is customary in hot Countries.

IN WINTER, when the Cold pinches so as to condense and astringe the WOMB and the Passages, she ought to LABOUR in an Upper-Room, kept moderately warm with one continued Fire; the MIDWIFE rubbing gently the

* Praef. L. 1. P. 4.

Hypogastrick and *Ischiatick* Regions every now and then with hot Cloaths.

IN SPRING and FALL, when parching dry *Weather*, with *North* and *East Winds* most abound, the *MIDWIFE* ought not only to rub these *Inferiour Regions* with hot Cloaths; but also to qualify the *Influences* of the *Siccid AIR*, by anointing the *Passages* with proper *Unguents*.

A SECOND *External Cause* may proceed from the *Passions* of the Will or Mind, as it often does from *Fear* and *Despair*, *Dejection* and *Pusillanimity*: In which Case, it is the *MIDWIFE's* Duty to encourage her *WOMAN* by the *Hopes* of a *Speedy DELIVERY*, and doing well under *God's Blessing*. When the Cause arises from *Anger* or *Sorrow*, these are to be assuaged by the repeated *Christian Exhortations*, and *Friendly Admonitions* of the *MIDWIFE* and *Gossips*. When it comes from *Pride* and *Obstinacy*, as has been the Case of some *Lofty Women*; who (deeming themselves too good, to be treated after the common Course of Mankind) have refused to undergo or permit the proper *Means*, absolutely necessary for their own *Relief*; THIS ought to be severely check'd by the *Company*, especially by the nearest *Friends*; the *MIDWIFE* (by proper *Remonstrances*) convincing her to her Shame of her obstinate *SIN*. When it proceeds, in fine, from *Bashfulness* or too strict a *Modesty*, she may be justly reprehended of *Folly*; for no *Woman* of good *SENSE* (how *Modest* and *Virtuous* soever) will expose her own *Life* or her *INFANT's* to *Danger*, for the trifling *Fancies* or *Caprices* of her own vain *Imagination*, especially in a Case where like things happen to *All* equally of *Flesh* and *Blood*.

BUT when it happens to proceed from the *Woman's* being ill-affected, or owing a private *Grudge* or *Hatred* to any in the *Company*, (as I once knew it to be the Cause of a difficult and lingering *BIRTH*) She ought to speak her Mind freely, at least to her *MIDWIFE*; who ought to give the *Person* civil Notice to retire forthwith, for certain Reasons, &c.

A THIRD *External Cause* of a difficult *BIRTH* may proceed from a *wrong Position*, or other *sinistrous Methods* taken to assist the *WOMAN*: In which *Case*, such *Inconveniencies* are to be alter'd, and better *Measures* practis'd; for *thus* the *Cause* being removed, the *BIRTH* differs in Nothing from *That* of the *Natural Easy Case*.

WHENCE I come, in the next *Place*, to speak of *Difficult BIRTHS*, proceeding from *Internal Causes*; and because they are *Threefold*, as has been before observed, I shall assign them as many respective *Chapters*, treating of *Each* in their due *Order*, as mentioned.



CH A P. V.

Of Difficult BIRTHS, proceeding from Causes of the MOTHER.

IN *this* (as in the *former Case*) the *MIDWIFE* must use her most acute and nicest *Judgment*, to find out the particular *Cause* of the *Difficulty*. Which being done,

I. IF *She* finds it arises from the *WOMAN's* being too *Young*, or too *Old*, of her *first Child*, or too *Lean* at last; *she* is to anoint the *Passages* with proper *Unguents*, which ought to be done some time *before*, as well as in the *Hour* of *LABOUR*: When *she* is likewise to employ her *subtile Hand*, in assisting and augmenting the *Dilatation* of the *Orifice*; as is requisite also in *Case* of the *WOMAN* being too *Fat* or *Gross*.

II. IF the *WOMAN* be too *small*, *short*, *crooked*, or *misshaped*, not having a *Breast* strong enough to forward and bear down her *PAINS*; or if *she* be over *tender*, *sensible*, and *apprehensive* of *PAIN*; or too *weak*, and not able to contribute or assist by her own forcing *Endeavours*; or *short-winded*, and not capable to constrain her *Spirits* downwards: In all these *Cases* *she* is to be kept *upright*,
for

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for the more free *Respiration*, as well as for encreasing her *PAINS*, standing or walking about the Room, according to her *Strength*, being supported under her *Arms*, and not put to *BED* until at least the *WATERS* are broke. But, in the mean Time, the *weak* and *tender* *WOMAN* ought to be now and then comforted and refreshed with *fresh* soft Eggs, good *Broths*, *Jellies*, a little *Wine* and *Toast*, a little *Wine* and *Water*, or such like convenient *Things*, as well as with the *Hopes* of a *speedy* *DELIVERY*.

III. *WHEN* the *PAINS* are not *Natural* or *Genuine*; but *Spurious*, *Faint* and *Languid*; or *Shifting* and *Tergiversant*; such are to be assuaged by proper *Lenitives* and *Anodynes*; which being regularly done, the *Genuine Pains* may be excited by proper *Clysters*, and divers other *Means*. But I would advise none to a *Profuse Use* of *MEDICINES* in such *Cases*, since I well know that many a *WOMAN* has lost her *Life* by using *dolorifick Medicines*, prescribed by imprudent *MIDWIVES*, without considering, 'or so much as knowing the true *Circumstances* of the *Condition*: Whereas in most *Cases*, by the ingenious *Motion* of an *Experienc'd Hand* only, the *PAINS* may be sufficiently awaken'd, and the *BIRTH* safely promoted.

IV. *WHEN* the *Difficulty* proceeds from the *Debility* of the *WOMB*, or its *Expulsive Faculty*, not being able? or capable to *Exclude* the *INFANT*, because of a more strong and valid *Retentive Power*: In this *Condition*, if there be no evident *External Cause* to be obviated, it depends chiefly upon the *Subtile Hand* of the *MIDWIFE*, to assist the *WOMB* in its *Function*; and otherways the *PATIENT* is only to be treated as in the *Case* of the *weak* and *tender* *WOMAN* above-mentioned.

V. *WHEN* the *WOMAN* is taken with any *Acute Disease*, the *BIRTH* is to be prompted by all safe *Means*; and if a *Natural DELIVERY* does not presently succeed, an *Artificial* one must (without *Loss* of *Time*) be undertaken. As in the *Case* of immoderate and continual *Floodings*, with concomitant *Convulsions*, which always proceed

Chap. 5. *from Causes of the Mother.* 237

proceed from the *Separation* of the *SECUNDINE* (either in whole or in part) from the *WOMB*, and happen many different ways, as already mentioned at large †.

IN these *Cases*, especially if the *SECUNDINE* is found (by the *TOUCH*) at the *Orifice*, there is no *Hope* of *Stopping* them by any other *Means*, than by *delivering* the *WOMAN*; which now the *sooner* done, the *better* (for saving two *Lives*) and *that* whether at full time of *Reckoning* or not. But this *Operation*, I conceive, is to be most discreetly *Undertaken* in the manner following, *viz.*

THE *Woman* is to be placed in *BED*, with the *Upper* and *Lower Part* of her *Body* almost *equal*, then the *MIDWIFE* is gently and gradually to introduce her *Fingers* into the *Orifice*, dilating it cautiously with *one* or *two*, until she can enter them *All*; when opening the *MATRIX* by *Degrees*, she gets in her *Whole Hand*, and thereby *first* carefully tears the *Membrane* with her *Nails*, if the *WATERS* are not previously broke: Then she puts her *Hand* in the same *Membrane* to the *INFANT'S Feet*, seeking them in their *Place*, where they are to be found, when they don't present themselves at *First*: Because, the *Hold* by the *FEET* being *Better*, it is more easy to *deliver* by *Them*, in this *Case*, than by the *HEAD*, or any other *Part*. After *this* the *FEET* being found, the *CHILD* is easily *turn'd*, as long as the *WOMB* is loose and slippery, and the *Humours* not quite flown off; which being nicely done, the *FEET* are to be drawn out *both together*, if possible; but if otherways, *they* must be drawn down *separately*, with *great Caution*: And so being conjoin'd or held fast together, they are to be drawn forward with *one Hand*, whilst the *other* is circumspectly thrust towards the *Knees* or *Buttocks* of the *CHILD*, in order thereby to turn also the whole *Body* of the *INFANT*, so that its *Face*, *Belly*, and *Toes* may tend downwards towards the *RECTUM*.

IN this *Posture* the *CHILD* may be gently and gradually extracted with *Ease*; next the *SECUNDINE* must be

† Vid. SECT. iii. Chap. 19.

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fetch'd away in its Turn, and lastly the WOMB is to be thoroughly cleans'd of all *heterogeneous* Bodies, as formerly directed †. And thus the WOMB (having yielded up its *Contents*) immediately contracts, by which *MEANS* of divine Appointment, the Vessels close and shut firmly, and consequently the *FLUX* ceases, together with all the concomitant *SYMPTOMS*.

BUT it is to be well remembred, that this *Operation* ought to be *timely* perform'd; that is, before the WOMAN has lost too much *Blood*, or is too much spent; in which *Condition* such a painful Attempt would but accelerate her *Death*. As to her *Regimen* next, upon this melancholy Occasion, *She* must be duly provided for *before-hand*, that she may be able to undergo and stand out such an extream difficult *DELIVERY*; and afterwards, that she may recruit her *Spirits*, and retrieve her exhausted *Strength*: For which Purposes, she ought to be supplied from time to time with some good *Broths*, *Jellys*, and a little generous *Wine*, smelling continually *Rose-Vinegar*, and applying repeated warm *Toasts* dipt in *Wine* (in which *Cinnamon* has been infus'd or boil'd) to the *Region* of her HEART, as also *Napkins* dipt in a Mixture of *Water* and *Vinegar* about her REINS, in order for turning the *Course* of the *FLUX*.

THESE Things being all duly and artfully perform'd, the PATIENT (under God) will soon *recover* and be *in Statu quo*. Now *These*, in short, are all the *principal* and most common *Causes* of difficult BIRTHS proceeding from the part of the MOTHER; which being thus discussed with all Brevity, I go on to—

† SECT. IV. Chap. ult.



CHAP

C H A P. VI.

Of Difficult BIRTHS proceeding from Causes of the INFANT.

IT sometimes also happens, that the *Difficulty* in *LABOUR* arises from the *INFANT*: And that *FIRST*, when *Two* or *More* strive for *Priority* in *BIRTH*.

NOW this *Condition* the *MIDWIFE* can no other-ways distinguish or discover, but by the *Touch*; and when the *one* is more *forward* than the *other*, 'tis not to be done or known, until she has even *touch'd* the very *Fund* of the *WOMB*: Because sometimes it so happens, that *One CHILD* has its *Hands* and *Feet* so intermix'd, that whatever way *She* turns her *Hand*, she finds *Legs* or *Arms*, *Hands* or *Feet*, which often deceives *MIDWIVES*, believing there are *TWINS*. But in this perplex'd *Case* the most sure and only certain *Sign*, is, when she feels *two Heads* or *two Backs*; for then she cannot be *Mis-taken*, since *one Body* cannot have *two Heads*, unless it be a *MONSTER*, which may be soon discover'd by feeling if the *double Head* be fix'd to *one* and the *same Body*.

BUT in the *Case* of *TWINS* or *more Children* (as long as they come right) the *DELIVERY* is perform'd, as if the *Woman* had but *ONE*, in the *Natural Case* already Stated; so that I shall repeat or recapitulate Nothing of what I have said, only that the *AFTER-BIRTH*, or *BIRTHS* are not to be *touch'd*, until all the *CHILDREN* are Born: Upon which drawing gently the *Navel Strings* (in their *Turns*) with the *One Hand*, the *Other* brings them forth easily and orderly; as is set forth more fully in *S. CT. IV. Chap. 18.*

A *SECOND difficult LABOUR* may proceed from the *Weakness* and *Debility* of the *INFANT*, or from its being

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too *Small-grown*; in which *Case*, both the *WOMAN* and the *MIDWIFE* are to use their best mutual *Endeavours* to promote the *BIRTH*, since the *CHILD* can do little or nothing for itself, and the *Less* it is, the less it is affected with the *THROWS* of the *Mother*, and the less *Impression* her *Impulses* make upon it: Whereupon *Nature* is to be assisted in this weak *Condition* by all convenient *Means*, whereof *THAT* of the *Agile* or *Nimble Hand* is the most effectual.

A *THIRD* difficult *BIRTH* may proceed from the *INFANT*'s being too *Big*; In which *Place* I must previously apprize the *READER*, that I no ways mean a *MONSTER* or *Hydropical CHILD*, but only *One* full, well, or *Big-grown*, which is only reckon'd too *Big* in regard of the *Maternal Passages*, which may be too *Small* in *Proportion*.

IN this *Case*, there is an absolute *Necessity* for *Manual Assistance*, since the *PAINS* (however penetrating or forcible) cannot effect the *Work*. But and if the *INFANT* is fallen down (well turn'd) into the *PELVIS*, the *MIDWIFE* using her best and most skilful *Endeavours* to dilate the *Passages* below near the *Os Coccygis*, the *CHILD* may be easily brought forth (without any dangerous *Instrument*) by her dextrous *Hand* only accomplishing the *Work*. In the mean *Time*, however, it is to be minded always, that *This* is still more safely and commodiously done by the *FEET*, than by the *HEAD*, after carefully dilating the *Os Coccygis*, taking this *Opportunity* in the beginning of the *LABOUR*, before the *INFANT* is too much press'd down into the *PELVIS*.

NOW these are, in fine, the most common *Causes* on the Part of the *INFANT*, whence I come to touch upon difficult *BIRTHS*, proceeding from *Causes* of the *Passages*; which, because they are various, I subdivide into a *Fivefold Diversity*; viz. *Difficult BIRTHS*, proceeding from *Causes* of the *MEMBRANES*, from *Causes* of the *PELVIS*, from *Causes* of the *BONES* of the *PELVIS*, from *Causes* of the *BLADDER* and *RECTUM*, and from *Causes*

Ch. 7. *from the* MEMBRANES. 241

Causes of the VAGINA : And because all these require to be singularly explain'd, and particularly insisted upon, I shall assign them as many respective *Chapters*. And *First*——



C H A P. VII.

Of Difficult BIRTHS, proceeding from Causes of the MEMBRANES.

SUCH *Difficulties* as These, in *BIRTH*, may arise, *FIRST*, from the *Strength* and *Firmness* of the *MEMBRANES*; when they happen to be so *gross*, *callous*, or *thick*, that the *INFANT* cannot easily break through them.

In this *Case*, when the *MIDWIFE* finds the *Orifice* of the *WOMB* sufficiently dilated, for the *Circumference* of the *HEAD*, and the *CHILD* so forward in the *Passage*, that it is ready for *BIRTH*, and only impeded by the rigid or stiff *MEMBRANE*; then *she* has just *Authority* to break it gently with her *Nails* and *Fingers*; taking *Care* in the *Act* not to draw the *MEMBRANE* towards *her*, because thereby the *SECUNDINE* (of which the *MEMBRANE*, tho' distinguish'd from the *PLACENTA*, is in *Effect*, but the *Thinner Part*) would be untimely separated from the *WOMB*, and the *INFANT* undone, unless presently *Born*.

BUT the *MIDWIFE*, after *All*, must always remember, not to attempt *This*, before these mentioned *Signs* are obvious to her *Touch*; otherways the *WATERS* being too soon discharged, the *CHILD* is left behind, the *Passages* grow dry, and *that* which might have been an *Easy* and *Speedy*, proves a *Difficult* and *Lingring BIRTH*.

AND the self-same *Consequences* arise from the *Weakness* and *Tenuity* of the *MEMBRANES*; when they

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are so *thin* and *soft*, that they break, and the *WATERS* (which are destin'd to lubricate and moisten the *Passages*) flow before their Time: In both which *Cases*, the Office of the *WATERS* must be supply'd by proper *Fomentations*, and *Oils*, which (however costly) falls far short of the *Effect* of what is so *Natural*. However, in short, neither of these *Conditions*, under the diligent *Hand* of the expert *MIDWIFE*, can differ far from the *Case* of an *Easy BIRTH*, as already defin'd; wherefore I proceed regularly to—



C H A P. VIII.

Of Difficult BIRTHS, proceeding from the Causes of the PELVIS.

DIFFICULT BIRTHS on part of the *Passages*, happen frequently, because of some perverse *Form* of the *PELVIS*, in these Respects; as by its being either too *Large*, too *Narrow*, or too *Smooth*. But that I may be the better understood in this Matter: *FIRST*, by a *PELVIS* too *large*, I mean such an *One*, as is so in comparison with the *WOMB* or *INFANT*; in which *Condition*, as the *Womb* can neither be firmly *fix'd*, compactly *inclos'd*, or duly supported, so neither can the *HEAD* of the *Infant* and the *WATERS* be exactly depressed upon the *Orifice*: Hence it often happens, that (besides the *MIDWIFE*'s careful *Hand*) the *Privities* are the best, if not the only *Defence*, against both the *WOMB* and the *CHILD*'s falling out of the *Body*.

SECONDLY, By a *PELVIS* too *small*, I mean, such an *One* as is so, in Consideration of the *SIZE* of the whole *Body*; in which *Condition*, the *INFANT* commonly answering to that *Proportion*, its *Head* can by no Possibility pass thro' the *PELVIS*, in a *WOMB* well seated, without great *Force*, by which Means the *WOMB* may be easily turn'd *obliquely*: And thus conse-

WOMB

quently the *Smallness* of the PELVIS, may sometimes prove the Cause of a *Preternatural*, as well as of a *Difficult BIRTH*; and not only so, but also the *Death* of both the MOTHER and CHILD may ensue thereupon, unless timely deliver'd by an *Artful Hand*.

THIRDLY, By a PELVIS too *smooth*, I mean such an *One*, whose *Distance* betwixt the OSSA PUBIS and the prominent Part of the OS SACRUM is too *narrow*; in which *Condition*, tho' the WOMB be well placed, it cannot admit the *Head* (especially if large and well-grown) without great *Difficulty*: And this *smooth PELVIS* may also very easily turn the WOMB (either way) *obliquely*, and consequently prove of the same dangerous consequential *Effect* with the preceeding *Case*.

HENCE (I think) it evidently appears, how necessary it is that all MIDWIVES should not only know the *Form* and *Size* of the PELVIS, but also the *Situation* and *Connexion* of its BONES, as already describ'd at large †, that she may thereby the better distinguish the *Circumstances* by plainly discerning the *Causes*, and judge accurately of the *Position* of both the WOMB and the INFANT; so that in the beginning of the LABOUR, she may immediately discover how the PELVIS and its *Entrance* is form'd, whether *Large* or *Narrow*, *Smooth* or *Round*.

FOR this Reason, the *first Thing* that the MIDWIFE ought to do, when she comes to a Woman in LABOUR, is to try by the TOUCH, how all is circumstantiated, with respect to these Things; and This is to be done before the WOMB and the CHILD are fallen down into the PELVIS, that she may contrive her *Work* accordingly. Because sometimes the *Exclusion* of the INFANT, is to be hoped for, from the PAINS only; sometimes *Nature* is to be prudently assisted; sometimes there is an absolute Necessity for *extracting* the CHILD (without loss of Time) by an *Artful Hand*, as will hereafter more clearly appear; and sometimes again the same Necessity obliges us to *protract* the

† Vid. Sect. IV. Chap. 7, 8.

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BIRTH, that we may save *One* or *Both Lives* : As in the *Case* of a *smooth PELVIS*, the *Os PUBIS* and the *VERTEBRÆ* of the *SACRUM* being but little distant, the *CHILD'S Head* is stopped ; when if the *MOTHER* should labour much, or endeavour to force an expeditious *BIRTH*, its tender *Head* (of course) must suffer in proportion ; Or perhaps the *BRAIN* may break, by so hard a *Pressure* against the *Bones* ; or, finally (which is worse) it may be so closely squeez'd between the *Bones*, that both the *MOTHER* and the *INFANT* may peradventure die, before any *BIRTH* can possibly succeed or come happily into the *World*.

BUT in this critical *Condition*, the *WOMAN* is to labour gently, and bear her *PAINS* (how violent soever) patiently ; the *MIDWIFE* always directing the *Head*, at the same time by her safe *Hand*, into the larger *Space* ; by which *Means* at last, it passes gradually through that narrow *Passage* without the least *Danger*.

THE same also is the *Condition* when the *PELVIS* is too *small* or *narrow* ; for by the *Woman's* labouring gently and deliberately, the *Head* is depressed softly into an *oblique Figure*, and passes easily by *Degrees* : Whereas, on the other hand, if it is forced by *Violence*, it becomes *flat* and *broad*, and consequently incapable of *Passing*, if not also *dash'd to Pieces*, as aforesaid.

HENCE we clearly see, how easily *Ignorance* in this Point, may lead common *MIDWIVES* into the grossest of *Mistakes* ; For what is more ordinary with them, even in all *Cases*, than to advise the *WOMAN* to *strong Labour*, and to force her to *violent Depressions* : In-
somuch that *SOME* have *Arrogance* enough to carry their *BOTTLES* or *POWDERS* about them, of which they neither know the *Quality* nor *Virtue* ; taking them only as they are told (by the confident *QUACKS* or *Mercenary Hands* which vend them) that they may encrease and promote the *PAINS* of Labour, and *This* without having any regard to the *Form* of the *PELVIS*, or the *Position* of either the *WOMB*, or the *INFANT*.

Ch.9. *from the Bones of the PELVIS.* 245

IN short, the mature *Consideration* of this very CASE, was not the least *Motive* which induced me to the WORK in Hand ; since I cannot but heartily commiserate so many fine delicate WOMEN, as are *thus* every day miserably handled, tormented, and exhausted, by the *preposterous Management* of such indiscreet and imprudent MIDWIVES. I may well say *exhausted*, or *worn-out* ; This being too evident, from the vast Number of most beautiful *Women*, who, by this ill-manag'd *Condition*, (notwithstanding they have all along heretofore, enjoy'd a good State of *Health*, together with the *Affluence* of other *Worldly Blessings*) have been more dejected and broken both in *Complexion* and *Constitution*, after *one* or *two BIRTHS*, than some *others* (judiciously and expertly *delivered*) have been after *Twenty* : Such is the great *Difference* betwixt the unskilful *Hands* or *Conduct* of common MIDWIVES, and those *Dextrous TOUCHES* or ingenious *Operations* of the more judicious *Andro-Boethogynists*. Whence I come in Course to—



C H A P. IX.

Of Difficult BIRTHS, proceeding from Causes of the Bones of the PELVIS.

THE READER may easily conceive, by the way, that *these* are neither to be made *bigger* or *lesser* by ART ; notwithstanding which, by using them *Skilfully*, and treating them *Judiciously*, many a *Difficult BIRTH* may not only be prevented, but also many a *LIFE* saved, as will manifestly appear from what follows.

NOW the *Bones*, upon which the Success of the *BIRTH* chiefly depends, are the *Os Coccygis*, and the Point of the *SACRUM* ; which sometimes bend too much *inwards*, and thereby obstruct and render the *PASSAGE* so *narrow*, that no *BIRTH* can possibly succeed. And

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again, It sometimes happens, that the *INFANT* falling down into the *PELVIS*, and presenting itself *Head-foremost*, is oppos'd and stopped there by the *Os Coccygis* : As it also sometimes falls out, that the *Shoulders* stick fast against the *Edge* of these *BONES* ; or the *Buttocks* falling down and offering themselves *first*, may be so fastened or affixed to them, that they can never be *extracted*.

THESE Misfortunes may proceed from *Either* of these two different *Causes* ; viz. Either from the *Grossness* or large *Size* of these *Parts* of the *INFANT*, or from the *Narrowness* of the *PELVIS*, occasion'd by an ill *Position* of its *Bones*, particularly of the *Os Coccygis* ; which *Bone* when the *Head* cannot make it yield or move, neither can it then possibly reach the *Orifice* of the *WOMB*, to dilate it sufficiently : And, in short, if the *Head* cannot effect this *essential Point*, much less can the *Buttocks*, or any other *Part* be supposed capable of doing it.

BUT in all the above-mentioned *Cases*, I am sensible, that most *MIDWIVES* (not knowing better) ascribe the whole *Difficulty* to the *Orifice* of the *WOMB* and the *VAGINA* ; upon which they ignorantly fall a-tearing and dilating both the *One* and the *Other*, (never minding the *Point* of the *SACRUM*) ; and finding *these Orifices* but little *open'd*, notwithstanding the frequent *Repetition* of very severe *PAINS*, they imagine that their substantial *Hardness* or *Thickness* is the only *CAUSE* : So that therefore (without regarding any *adjacent Part*) they go on violently dilacerating sometimes the *Mouth* of the *WOMB*, and sometimes *That* of the *PRIVITIES*, (as I have found it by *Experience*) quite to the *RECTUM*. For such is their *Stupidity* in this Condition of *LIFE* (as *Dr. Hunter* well observes) that whilst they *thus* tear and rend the *WOMAN* to *Pieces* in a manner, they allow her to sit over and above with the *Point* of the *Os SACRUM*, upon her *Seat* or *Bed* ; or in some other wrong *Posture*, which so presses and confines the *Os Coccygis* at the same Time, that neither of *these* can move :
Not

Ch.9. *from the Bones of the PELVIS* 247

Not minding at all that the chief *Pressures* and *Impulses* of the HEAD, must first bear upon the Os COCCYGIS in order to remove it, before it can effect the *Dilatation* of the *Orifice* or *Mouth* of the WOMB. Thus they spend the WOMAN'S *Strength* in vain, break her *Spirits*, and ruin her *Constitution* thro' Ignorance; whilst a capable *Person*, administering seasonable and judicious *Help*, according to the *Circumstances* of the *Case*, refreshes *Nature*, renews *Strength*, gives *Courage*, and fills the (otherways languishing and despairing) W O M A N, with *Hopes* and *Assurances* of a happy D E L I V E R Y.

I N short, the *True Method* of *Delivering* and helping the WOMAN conveniently, in the different *Conditions* contain'd in this *Chapter*, depends entirely upon *repelling* or *thrusting* back the *Point* of the Os SACRUM, together with the Os COCCYGIS. I say (therefore) the whole *Point* of the Os SACRUM, and that *Fleshy Part* lying about it, is to be *thrust* back and *dilated*, so that the *Passage* may be sufficiently opened for the INFANT to pass through; which patent *Dilatation* is to be promoted by *pressing* also *back* the Os COCCYGIS. Now these Things, in short, may be all done cautiously without creating any intense *Pain*, or the least *Damage*; and thus the obstructed *Passage* being clear'd and open'd, the BIRTH advances regularly of *Course*, and the CHILD is born with the greatest *Ease*, in the Space of a few Minutes: Whereas otherways (without the Use of these *Means*) both its *Own* and the MOTHER'S *Destiny* may be precarious or uncertain after some *Days* LABOUR.

T H U S it is certain, that by assisting a *Woman* in LABOUR seasonably and skilfully, her PAINS are happily excited and encreased; whereas, on the contrary, by *imprudent Treatment* they unhappily cease and vanish, to her great *Prejudice*. Moreover, daily *Experience* teaches us, that the very different TOUCHING of Things, occasions different *Sensations*; and from thence it is, that the dextrous MIDWIFE knows by one way of TOUCHING, how to promote the PAINS of Labour;

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and by *another*, how to retard or put them off according as the Necessity of the *Case* requires; which hereafter will appear more at large.

BUT that we may more particularly satisfy such *MIDWIVES*, of our *Method* of repressing these *BONES*, and *Delivering* the *WOMAN* in the abovesaid *Cases*; I must add, that, after placing the *PATIENT* in the most convenient *Posture* for a *WOMAN* in *Labour*, as before fully enjoin'd †, I would direct *Her* to be *supported* by two *Women*, and mov'd so far off the *BED* or *COUCH*, that the *Point* of the *Os SACRUM* may be free to yield or give way *backwards*, without any the least *Impediment*: Then I would pass my whole *Hand* at once (being first well anointed or dipp'd in *Oil*) into the *VAGINA*, and from thence (if the *Head* will admit it) into the *WOMB*, as occasion should require: where, upon opening my *Hand* broad, that it may press equally every where, I turn the *PALM* upwards, and the *BACK* downwards against the *RECTUM*, and the *OS SACRUM*: Thus I extend my *Fingers* as far as possible to the *Head*, thrusting it a little *backwards*, rather than hinder my *Hand* from being firmly placed against the *Os COCCYGIS*: Upon my *Hand* being thus properly placed, as soon as the *PAIN* begins to threaten (which I commonly perceive before the *WOMAN*) I advise her, to make good Use of the approaching *Pains*, in order to *Labour* mutually, and depress with all her Power, promising her my most faithful *Assistance*: By which Time, as soon as the *PAINS* have seiz'd her, and she doing her *Part*, I press my *HAND* backwards, first *softly*, and by degrees more *strongly*, against the *Point* of the *SACRUM*, bringing it at the same time gradually downwards, that I may thereby make Room for the *Head* sliding the same way; so that the more severe the *PAINS* are, the more I depress still, and the harder I press down with *Effectual PAIN*, the more vigorously and successfully the *WOMAN* is able to *Labour*.

† Vid. Sect. IV. Chap. 17

THUS

Ch.9. *from the Bones of the PELVIS.* 249

THUS I enlarge the *Passage* with great Moderation, so that the *INFANT's Head* succeeds or follows my *Hand*, as I bring it by little and little *back* again; and this adviseable *Method* I would reiterate as often as the *Case* should require, always encouraging my *WOMAN*, by the most obliging Words: Upon which *She* suffering no *PAIN* in vain, finds immediate *Relief*, recovers her *Strength*, recollects her *Spirits*, and by jointly *labouring* her *Best* with all her Force and Might, at last produces her *CHILD* with Comfort and Satisfaction, whilst I congratulate her upon the Success of being a joyful *MOTHER*.

BUT supposing by the way, that the *INFANT* offers its *Buttocks* first, they being neither so round nor hard as the *HEAD*, I would then intrude all my *Fingers* into the *WOMB* more easily; some of which (or sometimes *All*) I would pass into the *Orifice* of the *WOMB* under the *Buttocks* as before into the *VAGINA*. Now my *HAND* being placed there, I intently observe the *PAINS* as they come on; then inviting the *Woman* to *Labour*, I gradually press *backwards* as hard as I can conveniently, drawing my *HAND* *downwards* as before: But if in attracting it so, the *HAND* should slide too much out of the *WOMB*, (which however I endeavour to prevent) while the *PAINS* are yet upon her; then as soon as they are over, I pass it up again, that I may be ready against their *Return*. And *this* I would reiterate upon every *PAIN*, so that the *CHILD* (guided by my *HAND*) may slide down at every Turn, until at last the *Passage* is so dilated, that it may advance gradually with *ease* into the World.

BY these judicious *Means*, forcing back the *OS COCCYGIS* by the *Pressure* of the *HAND*, as the *PAINS* come on, I may not only dilate the *Passage*, and enlarge the *Orifice* of the *WOMB*; but also upon retracting the *HAND* by degrees, I can gradually attract the *CHILD* out of the *WOMB*, through the *Narrowness* of the *PELVIS*: And thus, by this curious *ART*, (which I take to be one of the chief *Points* belong-

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belonging to MIDWIFERY) I do fairly *deliver* the WOMAN, who by no other *Means* whatsoever, could be preserved, together with her *INFANT*, in all Probability.

HOWEVER, tho' I have candidly laid down this *Method*, (conformable to the Doctrine of the most excellent and ingenious *Instructors*) yet I would not advise every coarse *Clumsy HAND* to undertake it, nor *such* as are not thoroughly acquainted with the *Parts* of Generation : For this *Performance* requires *Judgment* and *Prudence*, as well as *ART* and *Experience*. But however yet in *Case* of *Necessity*, where no *Extraordinary Person's Assistance* can be had, as it often happens in the *Country*, the *Ordinary MIDWIFE* ought not to neglect her *Duty* : nevertheless, before she offers to attempt this piece of extraordinary *Skill*, she ought to be very certain that these *BONES* are the great *Impediment* and *Difficulty* of the *Delivery*.

C H A P. X.

Of Difficult BIRTHS, proceeding from Causes of the BLADDER and RECTUM.

DIFFICULTY in *BIRTH* may also proceed from the *BLADDER*, as (in like manner) it may from the *RECTUM* or *Strait-Gut*.

I. FROM the *BLADDER*, when affected with *Tumours*, *Ulcers*, or *Glands*, obstructing the *Passages*; which however is more frequently occasioned by *Stones* lodged in the *BLADDER*, or in its *Neck* : In either of which *Conditions*, the *MIDWIFE*, by dilating the *Passage* with a subtle *HAND*, must repel the *OS COCCYGIS* according to *ART* (as taught in the preceding *Chapter*) that the *HEAD* in falling down, may the less offend the *BLADDER*.

II. T H E

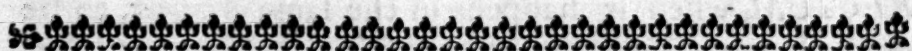
Ch. 10. *from the Bladder and Rectum.* 251

II. THE same *Difficulty* may arise from the *RECTUM*, when it happens in the same *Manner*, to be affected with such obdurate *Glands*, *Tumours*, &c. for the *Consequence* is the same in shutting up the *Passages*: In which *Case* the *MIDWIFE* is to depress gently such *Excrescences*, of what kind soever, with her cautious *HAND*, and consequently to dilate the *Passages* by degrees (how much soever obstructed) for receiving the *Head* of the *INFANT*; always having a respect to the *affected Parts*, and bearing no harder upon them than *Necessity* requires.

MOREOVER sometimes it happens, that the only *Difficulty* in *LABOUR* proceeds from *hardned Excrements* in this *Gut*, which may as effectually stop or shut up the *Passage*, as any thing else, until duly voided and evacuated by *one* or *more* proper *CLYSTERS*, as *Occasion* directs.

BUT sometimes it also happens, that such *Difficulties* arise from the falling out of the *Fundament* by the strong and violent *THROWS* that the *Woman* suffers in *LABOUR*: In which *Condition*, if the *CHILD* is very forward in the *Passage*, before it happens, it may be prevented by dissuading or hindering the *WOMAN* from *Labouring* so vehemently; but if it happen'd before that time, it must be left so until the *BIRTH* be accomplished; after which time, it is to be put up exactly, and reduced to its proper *Place*, in the same manner as the *WOMB* might be (in *Case* of its *Prolapse*, as mentioned in the following *Chapter*) after duly *fomenting* and *bathing* it with proper *Applicatives*: *advertising* always to use no *CLYSTERS*, in time of *CHILD-BED*; because such *Means* would readily excite it again to a slippery *Relapse*.





C H A P. XI.

Of Difficult BIRTHS proceeding from the Causes of the VAGINA.

DIFFICULTY likewise in *LABOUR* may also arise from the *VAGINA*, or *Neck* of the *WOMB*; this *Part* being no less liable to the Affection of *Tumours*, *Glands*, *Ulcers*, &c. than any *Other* before-mentioned: In *Either* of which *Cases*, my above-mentioned *Method* in the foregoing *Chapter*, shall suffice for the *MIDWIFE's* *Instruction*; as also in *Case* of an *Inflation* or *Inflammation* of the *Pudendum*.

BUT sometimes also this *Difficulty* happens from the falling down of the *VAGINA*; which *Accident* may as well preceed as follow after the *BIRTH*, and that by the *Orifice* of the *WOMB* pressing hard into that of the *Privities*: So that sometimes, when the *MEMBRANE* is broke, the *Head* of the *INFANT*, as well as the *Orifice* of the *WOMB*, slides down so far, as to hang out of the *Body*; whereby the stressed *Ligaments* (being too much relaxed) give way to the falling down not only of the *VAGINA*, but also of the *WOMB* it self.

IN this sad *Condition* the *WOMAN* must keep her *BED*, and her *Body* equally situated, that either the fallen *VAGINA* or *WOMB*, may recover and be immediately restored to its proper *Place*; which being done, other *Matters* may be easily prevented by the *Care* and *Diligence* of the prudent *MIDWIFE*, stopping and restraining the *Orifice* of the *WOMB* before it comes so far to that *Extremity*: Wherefore she ought to keep it up in the *VAGINA* (as much as possible) with her *HANDS*, until the *WOMAN* has happily extruded both the *CHILD* and the *AFTER-BIRTH*.

UPON

UPON This afterwards, *ſhe* is to uſe her beſt Endeavours, to reſtore both the WOMB and VAGINA to their due Situation; laying the *Wrinkles Smooth* in their proper Order, not one upon another; then placing the WOMAN conveniently in BED, with her Head and Shoulders declining, *Exiccant* or drying MEDICINES are to be judiciously applied, and *Strengthening* or *Astringent Fomentations* often uſed; whereby (in good Time) both may be again confirmed in their proper Natural Places.

NOW having thus, in ſine, candidly explained the *Different Cauſes* of all *Difficult BIRTHS*, and carefully laid down the *genuine Methods* of correcting and removing them, and conſequently of *Delivering* the good WOMAN ſucceſsfully in all ſuch nice *Caſes*, it remains now in Courſe that I proceed to—



C H A P. XII.

Of Preternatural BIRTHS.

SUCH BIRTHS, (properly ſpeaking) are only *Preternatural*, which degenerate from the *Natural*, in reſpect either to the *Situation* of the INFANT, or the WOMB, or of both theſe jointly: Such (I ſay) may be well call'd *Preternatural*, becauſe of the imminent Danger that (in theſe *Conditions*) threatens both the MOTHER and the CHILD.

HENCE we find the Difference between *This* and the *Natural BIRTH*; in as much as the *One* depends entirely upon ART, and the *Other* merely upon NATURE: In *That* the INFANT is artificially extracted by the *Hand*, but in *this* it is naturally extruded by the PAINS.

HIPPOCRATES gives † us a *Twofold-Cauſe* or Reaſon of a *Preternatural BIRTH*; to wit, the *Am-*

† Lib. de Nat. Puer,

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plitude of the WOMB, and the *inordinate Motion* of the Woman about the Time of *LABOUR*, : Who, because of her afflicting *PAINS* and great *Ailments*, keeps her Body in a restless and unsteady *Posture*, throwing herself sometimes *here*, and sometimes *there*, sometimes on *One side*, and sometimes on *Another* through *Uneasiness*. By which means it cannot be otherways, but that the *INFANT* may be easily turn'd into some *Preternatural Situation*.

AND to *These Causes*, *Senertus*, *Rodericus à Castro*, &c. add the *Two* following ; namely, the *Solidity* of the *MEMBRANES*, and the *Debility* of the *Head* of the *CHILD* : Because (as they well observe) when *This* is not strong enough to break through *Those*, the *INFANT* endeavouring it otherways, (with *Feet* or *Hands*) may readily fall into some *Preternatural Position*.

BUT because I find, that *Preternatural BIRTHS* deviate in different *Degrees*, and vary in many respects from the *Natural*, and *that* also according to a great Variety of *CAUSES* (no ways known to those most *Learned Authors*) but only of late discovered ; I shall now again reduce the different *Species* of *Preternatural BIRTHS* to four *Classes* ; namely, *Preternatural BIRTHS* on Part of the *INFANT*, on Part of the *WOMB*, on Part of *Both* those jointly, and lastly on Part of some *intervening Accidents*.

IN treating of which, I shall according to my best Judgment, *state* these respective *HEADS* in due Order, and assign each its proper *Branches* ; which I shall particularly discuss in brief *Terms*, for the Facility and Benefit of the *Candid READER*, whether *MAN* or *Woman-Midwife* ; That they may (by this plain and easy Method) be enabled the more readily to judge of, and distinguish the several Circumstances, and consequently the better discharge their Duties (upon Occasion) to the Comfort and Satisfaction of those *PATIENTS* concerned, and the Honour of their own ingenious *Profession*.

BUT

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BUT before I enter upon *These*, I would willingly in this place, previously subjoin a Word or two of *Advice* (by way of *Precaution*) to the Young *Andro-Boethogynist*: Which, in short, consists in this *Point*, that as it is the too common *Practice* here in *England*, for an obstinate SET of *Women* to keep their *Labouring PATIENTS* so long under their own Hands only, until the very last *Extremity*; so I would not counsel him at that *Time*, when sent for, upon such a ticklish *Occasion*, to go *Head-long* to such a *Work*, nor to undertake the *DELIVERY* of such a *Woman*, before He makes some requisite *Observations*: And that I mean no ways because of any *Danger* of the *Preternatural BIRTH* which she labours under, how difficult soever it may be; but merely, on account of the *Woman's* exhausted *Strength* and *Ability*, to undergo the respective *Operation* in her weaken'd *Condition*; which I would very much question in most *Women*, after *One, Two, or Three Hours* strong *LABOUR*, and that in *SOME* far sooner, notwithstanding that *others* have been known to stand it out, and struggle a much longer *Time*.

HOWEVER, be this as it will, I commonly guess at the *Woman's State of Ability*, not only by her *PULSE*, if *strong* or *weak, unequal* or *intermitting*; by her *EYES*, if *dejected*; by her *SPEECH*, if *faint*; by touching the *EXTREMITIES* of her *Body*, if *frigid*: but also by some other *SYMPTOMS*, which infallibly appear, if the *Woman* be too far spent, such as *Cold Sweats, Swoonings, Convulsions, Loss of Sense, &c.* Whereupon I say in these *Cases*, it is more adviseable to let alone or decline the *Office*, than to undertake such a precarious uncertain Piece of *Work*; because if the *Woman* happens to die under his *Hand*, He may perhaps be (however unjustly) blam'd for the errant *Midwife's* Faults, or at least He will scarce avoid the *CENSURE* of the *Ignorant* and *Malevolous*.

YET this *Advice* (however wholesome and prudent) is, I confess, what I would but seldom have Recourse to, or follow myself, notwithstanding the worst Consequences

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quences of the Case; since as long as there is *Life*, there is *Hope* with me, by the Blessing of God: Which tho' never so *little*, I should think myself obliged in Conscience to do what both *ART* and *NATURE* command, and rather in all *Conditions* of *LIFE* to attempt an uncertain *CURE**, than abandon the *Distressed* to certain *DEATH*, as some *Politicians* in *Physical* Affairs commonly do, who prize their vain *Reputation* above the *LIFE* of their Neighbour. But *thus*, in short, (for my own Part) I would chuse to *act*, because I have often seen, and known *NATURE* to have perform'd, and recover'd a weak spent parturient *PATIENT*, even beyond all human Probability.

NOT but that I would take the proper *Precautions* along with me, before putting my *Hand* to the critical *Work*, upon any such desperate or dangerous *Occasion*, by giving my ingenuous *PROGNOSTICK* to the nearest *Friends* and *By-standers* of the extreme *Danger* that both *LIVES* may be in: Whereupon after thoroughly examining all *Circumstances*, with respect to the *CHILD*, whether *One* or *More*, *Dead* or *Alive*, &c. I would chearfully begin my *Endeavours* to relieve the afflicted Woman, encouraging and exhorting her in the first Place, for God's-sake, as well as *her own*, and the tender *INFANT'S Life*, to put herself entirely into my *HANDS*, to undergo her *LABOUR* patiently, and contribute what she can to the *DELIVERY*.

BUT to return from this pardonable *Digression* to what is here proposed; as I come first to speak of *Preternatural BIRTHS* on the part of the *INFANT*, I would observe that all ill *Postures* of the *CHILD*, in a *WOMB* well situated, are the only *Causes* (meant in this place) of *Preternatural BIRTHS* on its own Part: Which *Postures* being very various and different, and each requiring a different peculiar *Operation*; I shall state them particularly (as above-mentioned) and that in their respective *Chapters*, after the manner following: *viz.*—

* Cels. l. II. c. 10. p. 79.

C H A P. XIII.

Of Preternatural BIRTHS, by the FACE's being turn'd upwards; or bent forwards, and the CROWN backwards.

AMONG the many various *Preternatural Positions* of the *INFANT*, I cannot but reckon *THIS One*: *FIRST* when, tho' the *CHILD* offers itself *Head-foremost*, yet the *FACE* is turn'd upwards; and *that* because the *INFANT* in such a *Posture* can never be commodiously bent and adapted to the *Form* of the *PELVIS*.

IN this *Case*, the *MIDWIFE* ought to take special *Care*, that the *HEAD* fall down directly and safely, without being hurt, whilst she endeavours to bring it forward: For this Purpose, she is to enlarge the *Passage* as much as possible, dilating the *Privities*, and depressing the *Os COCCYGIS*; which however must be done, without lifting the *HEAD* with her *Hand*, for fear of bruising the *FACE* against the *Os PUBIS*. By this Method the *BIRTH* (how *Preternatural* soever) may be pretty well and easily perform'd.

BU T because the *CHILD* can only be said to be well-turn'd, when it comes with its *CHIN* leaning upon its *Breast*, and its *Top* or *Crown* of the *HEAD* tending directly to the *Orifice*; I reckon *THIS another Preternatural Position*, when the *INFANT* presents itself with the *CROWN* bent backwards, and consequently with the *FACE* forwards: By reason that in this *Case*, the *Orifice* itself and all the rest of the *Passage* must be much more dilated, than in the *natural Condition*; and the *HEAD* (being thus bent backwards) requires more severe *PAINS* and hard *LABOUR*, to make it slide through the *Passages*.

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IN which *Case*, the *MIDWIFE*, having timely discover'd this *Situation* by the *Touch*, ought immediately (upon the flowing of the *Waters*) to bend the *HEAD* gently *forwards* to the *BREAST*, all the while adverting to handle the *FACE*, especially the *Nose* and *Eyes*, very tenderly : And to this *End*, the *Woman* may be laid down on her *Back*, with her *Head* low ; by no means *labouring* with the *PAINS*, before the *HEAD* of the *CHILD* is so conveniently turned : which may be thus most properly perform'd ; viz. By laying the *Palm* of the *Hand* on the *INFANT's Breast*, near its *Throat*, pressing it entirely *back* towards the *Fund* of the *WOMB* ; by which means the *HEAD* falls *forwards* of its own *Accord* upon the *MIDWIFE's Arm*, and *she* with-drawing her *Hand*, will find the *HEAD* well turn'd.

BUT supposing the *HEAD* to be very strictly bent or pressed *back*, then the *MIDWIFE* is to attract it gently *forwards* by her *Thumb*, or *Fore-Finger* thrust into its *MOUTH* ; or by the *Points* of all *Four* thrust betwixt the *WOMB* and the *back Part* of the *HEAD*. And thus, in fine, the *HEAD* being well *Turned*, and dextrously brought into the *Passage* ; the *Woman* is then to be placed commodiously for *BIRTH*, and to labour her *Best* as in other *Cases*.

HOWEVER to this *Case*, I must add, by way of *Remark* for the *MIDWIFE's* farther *Information* and better *Government*, that, if the *HEAD* is not brought into the *Passage*, as soon as the *Waters* have flow'd, it commonly happens, that the *HANDS* offer themselves *first* ; which if *she* do not instantly *repel*, the *HEAD* is turn'd-up *forwards* with the *FACE*, near the *Chin*, upon the *Os PUBIS* ; in which *Condition*, by reason of the *Siccity* and *Contraction* of the *WOMB*, the only *Expedient* is to thrust *back* the *ARMS*, and so passing the *Hand* under the *CHILD's Breast*, to take hold of, and extract it by the *FEET*.





C H A P. XIV.

Of Preternatural BIRTHS, by the Hand, Elbow, Shoulder, Knees, or Buttocks presenting first.

THE CHILD also sometimes offers itself *preternaturally* to the *Orifice*, with its *HAND, ELBOW, SHOULDER, KNEES, or BUTTOCKS first*: In which *Condition*, the *HAND* always gives an easier *BIRTH* than the *ELBOW*, the *ELBOW* than the *SHOULDER*, the *SHOULDER* than the *KNEES*, and the *KNEES* than the *BUTTOCKS*: For the *HAND* being commonly placed near the *Head*, it is no great Wonder, if it presents itself *before*, or *along* with it; as sometimes (after *Flooding*) the *HAND* may slide together with the *Head* obliquely to either *Side*, and thereby either *ELBOW* or *SHOULDER* unfortunately fall into the *Passage*.

THIS is one great Reason, why I have before inculcated, that the *MIDWIFE* ought to be diligent and accurate in *Touching* her Woman, even before the *MEMBRANE* breaks, that she may thereby discover and prevent this *Case*: Which is easily perform'd, either by *repelling* the *HANDS*, or by pinching the *INFANT* sensibly by the *Fingers*, and then it soon retracts them; for thus, in short, by moving my own *Hand* seasonably, the *HEAD* (of its own accord) slips of course down into the *Passage*. But and if it happens otherways, 'tis no difficult Matter to *turn* and bring it down, by directing my *Fingers* beyond the *FACE* to the *CHILD's Forehead*; which however must be done immediately after *FLOODING*: Whereas, if *This* be neglected until the *dry WOMB* is contracted, *THEN*, and in that *Condition*, the *FEET* may be looked for, which (in such a *Posture*) are soon found, with the *KNEES* next the

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Belly; and the *INFANT* may be readily drawn out by them. But

WHEN it so happens, that the *CHILD* comes with its *KNEES* foremost, it commonly has its *LEGS* folded towards the *BUTTOCKS*; by which means many a *MIDWIFE* has been deceiv'd, especially when *she* feels but one *KNEE*, mistaking it for the *HEAD*, because of its *Hardness* and *Roundness*.

IN this *preternatural Condition*, the *INFANT* must be stopped and hindered from advancing farther; wherefore having placed the *Woman* aright, I would gently repel the *KNEES*, that I may the more commodiously unfold the complicated *LEGS*, one after another; which I commonly do by directing *one* or *more* *Fingers* under the *HAM*, gradually along behind the *LEG*, until I come to the *Foor*; drawing always a little *obliquely*, that I may come the easier to its *Extremity*: And thus, in short, having disengaged the *One*, I accordingly manage the *Other* after the same manner; and by bringing both *FEET* at last together, I finish my *Work*, as if the *CHILD* had come *FEET* foremost, of which in course.

MOREOVER again it also happens sometimes, that the *CHILD* falls with its *BUTTOCKS* forwards; in which *preternatural Condition*, the *MIDWIFE* must industriously prevent it from coming too low in the *PASSAGE*, before it be duly corrected or rectify'd; since the *INFANT* cannot possibly come, after this manner, into the *World*; unless it be very *small*, and the *PASSAGE*, on the other hand, very *large*. Wherefore in this *Case*, after the *Woman* is decently laid upon her *Back*, with her *Head* declining, I would advise to thrust back the *BUTTOCKS* as well as possible; then passing up my *Hand* along the *THIGHS* to the *Legs*, I would take hold of the *FEET*, and bring them gently, and one by one, forth gradually; which being done, I would attract them by the *HEELS* towards the *Side* as far as the Length of the *BUTTOCKS*; and then at last taking good *Hold* under the *HIPS*, I would easily and softly
with

Ch.15. Of *Preternatural* BIRTHS. 261

with the greatest *Deliberation*, draw out the whole Body successively.



C H A P. XV.

Of Preternatural BIRTHS, by the Breast, Belly, or Back, presenting first; and the INFANT's lying transverse.

SOMETIMES likewise the *CHILD* offers its BREAST or BELLY *first*, along with the *Navel-string*; which *Preternatural Figure* is most dangerous for the BIRTH, because of the *Body's bending backwards*.

IN this difficult Case, the attentive *MIDWIFE* places her *Woman* conveniently, as soon as the *Waters* have flow'd, and sliding her *Hand* into the *WOMB*, removes the *String*, and endeavours to bring the *HEAD* forwards into the *PASSAGE*; which she easily performs, as long as the *INFANT* is suspended on high, and its *Back* not too much bent, by putting-in her *Hand* gently up to the *hinder Part* of the *CHILD's Head*, attracting it gradually downwards. But if in this Condition the BIRTH be fallen too far down, it is more adviseable first to attract the *FEET* considerably.

I say considerably, because it is not sufficient to penetrate with the *Hand* to the *FEET*; which however yet, in this *Posture* is pretty difficult: But also to know exactly in what manner they are to be drawn down; since it is no indifferent Matter to understand how that is to be rightly perform'd with Success. Wherefore I shall in this place take upon me to set forth two different Ways of Turning the *INFANT* in this Condition; viz.

I. I would either FIRST pass my *Right Hand* to the *Left Thigh* of the *CHILD*, and taking hold of it near the *KNEE*, push it upwards with my *Thumb*, drawing it at the same time downwards with my *Fingers* placed

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behind : Thus I would bring down one *KNEE* to the *Passage*, leaving the *Foot* yet above, and then the other *KNEE* in its *Turn*; which being done, I would change my *Hand*, and put the *Left* up to the *INFANT's* *Belly* or *Breast*; where, as I thrust back its *Body upwards*, there is presently *Room* enough : then I would take hold again of one or both *KNEES*, to move the *CHILD* higher, that so the *FEET* may be more conveniently brought into the *Passage* one by one, if not *Both* at once : Or, upon the *LEGS* being bent with the *Right Hand*, and the *KNEES* brought into the *Passage* (as above) I would take hold of them below the *HAM*, and bring them past the *Orifice* of the *WOMB*, till the *FEET* are before the *Passage*; whereupon I would then readily endeavour to extract the *INFANT* by the *FEET*. Or, *SECONDLY*,

II. I would put my *Right Hand* up along the *Belly* to either *THIGH*, or *KNEE*, having at the same time a thin *Bandage* doubled and dipp'd in *Oil*, upon my *Fingers Ends*, in order to be put about the *KNEE*, that I may attract it gently thereby; which I would draw out again by the *Right Hand*, whilst my *Left* holds the *Ends* of the *Bandage*, that they may not move out of their *Place*: Then I would take the *Extremities* of the *Bandage* in my *Right Hand*, attracting it softly thereby, whilst I pass up my *Left* into the *WOMB*, to thrust the *CHILD's* *Belly upwards*. By which ingenious and regular *Means*, I think, *Dr. Daventer* first moved the *upper Part* of the *BODY upwards*, and the *FEET downwards*, because the *KNEES* are thereby brought nearer to the *Orifice*. Now these, in short, are the only safe, and proper *Methods* to be taken in this present *Case*, or nice *Conjuncture*; because, by all other inconsiderate and temerarious *Means*, the *INFANT's* *LOINS* may be twisted, its *HIPS* or *KNEES* disjoined, its *FEET* lamed, and itself at last quite lost or destroy'd.

IN like manner it happens not very seldom, that the *INFANT* comes with its *BACK forwards* into the *Passage*; and in this *Posture* the *NAVEL-STRING* falls

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Ch. 15. *the Infant's lying Transverse.* 263

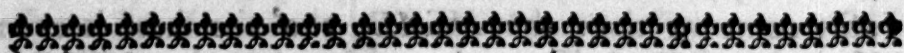
commonly down *there*, so that besides *itself*, nothing else is to be felt by the TOUCH: In this Case, the MIDWIFE is to observe well the FLOODING; immediately upon which, *she* is to seek for the FEET, which are more easily come at than the HEAD, tho' the same is even also a very difficult TASK, by reason that the CHILD's Back takes up the whole Space of Room; which, notwithstanding, must be cautiously done, and the INFANT discreetly extracted by *them*.

BUT again sometimes, the BIRTH lies also *Transverse*, or a-croß the WOMB; in which dangerous Case, I confess the MIDWIFE cannot well perceive, so as to distinguish Matters by the TOUCH, before Flooding: Because the INFANT (swimming in the Waters) is as yet seated high, and then moving its HANDS and FEET variously, *she* sometimes feels *one*, and sometimes *another Member* at the Orifice; or, one Moment *she* finds *Something*, and another *Nothing* at all there. However, in fine, *she* may perceive the Humours most commonly compressed into an *acuminated* or *oblong Form*.

WHEREFORE in this difficult *Preternatural Condition*, the MIDWIFE ought primarily and chiefly to consider and discover the *Posture* of the WOMB, whether it be *direct* or *oblique*; since according to THAT *she* must proceed in assisting her Woman with true Discretion. As for Example, if *she* finds it in a streight or natural State, and the Waters sufficiently exuberant, extended lengthways, &c. as aforesaid, *She* must, without Loss of Time, break the MEMBRANE, and presently, removing all Impediments of HAND, FOOT, or NAVEL-STRING, judiciously direct the HEAD into the Passage; which may be very easily and safely done immediately upon the FLOODING. Whereas if *this Method* be delay'd, or not taken in *due Time*, and consequently the HANDS (as the readiest) present themselves to the Orifice first: In this Condition, I would lay the Woman discreetly upon her Back, with the upper Part of her Body lowest; after which, I would move the INFANT's Hands back with my own; whereby at

264. *Of Preternatural BIRTHS, Sect. V.*

the same time bringing its *FEET* into the *Passage*, I would in the next Place gently extract the whole Body with all possible *Conduct* and *Success*.



C H A P. XVI.

Of Preternatural BIRTHS, by the Feet presenting first.

IN like manner again, it often happens, that the *CHILD* offers its *FEET* foremost; which next to a *Natural BIRTH* is the most easy and safe *Position*, however I have been oblig'd to postpone it to the rest, for *Method's* sake: In this *Case*, the *MIDWIFE*, observing one *FOOT* presenting itself in the *Passage* after *FLOODING*, ought to stop and retain it *there*, that it may not slide through, until *she* meets with the other. In order to which Performance, *she* must immediately seek for it, with either *Hand*, according as *she* perceives the *INFANT's* great *Toe* situated, since it is only to be sought for along its *Side*; and being found, it is to be gently drawn down, and placed near its *Fellow* in the *Passage*.

BUT it falls out sometimes, that the *MIDWIFE* comes too late, and finds one *LEG* so far through, that the *BUTTOCKS* are strictly confin'd: In this *Condition*, I would advise to lay the *Woman* conveniently upon her *Back*, with her *Head* low, that both the *WOMB* and the *CHILD* may retreat a little; then taking hold of the right *LEG* with my *Right Hand*, I would thrust the *INFANT* back, till the whole *Foot* (or at least the *KNEE*) is brought back into the *Orifice* of the *WOMB*, in order that I may have the more *Room* for passing my *Hand* along the *LEG*: By which means I get hold of the other *Foot*; and bringing it also into the *Passage*, I place

Ch 16. *by the Feet presenting first.* 265

place it along with the *other*, that both may come forth successfully together.

WHICH Thing, happening so when it will, that both *FEET* are excluded, whether done *spontaneously* or by *ART*, they are never to be *repell'd* or *thrust back* again; but, on the contrary, the way is to be duly cleared for their *PASSAGE*; *This* being a very commodious *Situation*, provided the *CHILD* be *well-turned*, I mean, with *HEELS* and *BUTTOCKS* upwards, and *TOES* and *BELLY* downwards: Whereas, if otherways, the *CHIN* may be easily hooked upon the *OSSA PUBIS*; which (if not so happily *turned* at first) I commonly prevent in the most adviseable manner following; *viz.*

UPON attracting the *INFANT*, I *turn* it cautiously at the same time, using both *Hands* in the ensuing *Method*; namely, The *One* I put up under its *Body* as far as possible, whilst with the *Other* I hold both *FEET* together: Insomuch that by this Means I gradually *turn*, not only the *FEET* and the *LEGS*, but also the *whole Body*; bringing it always *forwards* in the Interim, till at last it lies with its *BELLY* downwards, and is *out* above half way: Upon this I then give my *Woman* the Motion, to begin her *LABOUR* and endeavour her *Best*; because the *HEAD* and *ARMS* must necessarily pass through *All at once*. For notwithstanding the contrary Opinion of most *Authors*, who teach us to draw down the *ARMS* *one by one*, and place them upon the *Body*, I cannot but agree with *Daventer*, and positively advise in *this* and all such *other like Cases*, to leave the *ARMS* about the *HEAD*, that they may be excluded along with it: Because, as he says, tho' the *Woman* in so doing, is obliged to force her *INFANT* *forwards* with all possible Endeavours, yet like a small transient *CLOUD*, it is soon over.

WHEREFORE I commonly make it my Business to prevent the *Woman's PAINS*, until I have brought the *CHILD* this *Length*; when allowing her a little Time to rest, I heartily encourage and positively promise *Her*, that, she performing her *Part* effectually,

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tually, (by using all her *Strength*, and behaving herself as if the *PAINS* were most really *pressing* upon her, whether so or not) the *BIRTH* will immediately succeed : And upon this *Promise*, with the *PATIENT*'s mutual *Assistances* concurring, I never yet fail'd ; neither will any *Persons* who faithfully and ingeniously follow this *Method*, in comfortably helping the *Woman* upon such an *Occasion*, by drawing the *CHILD* cautiously *downwards*, with whatsoever judicious *Force* : I mean not *downwards*, according to the *Woman*'s *LENGTH*, but *downwards* towards the *strait Gut*. And as I every *Moment* insinuate to the *MOTHER*, that her *BABE*'s *Life* depends entirely upon her vigorous confederate *LABOUR* ; so *she* mutually concurring with me, in endeavouring to do our *Best*, the *AGRIPPA INFANT* is presently brought forth to the great Satisfaction of *Both*.

BY these *Means* and *Methods*, we prevent the *Tragical Consequences*, which *Mr. Portal* and many *others* confess they have often met with in their *Practice* ; viz. That the *HEAD* has been sometimes pulled-off from the *SHOULDERS*, or that the *CHILD* has been frequently *stifled*, by the *WOMB*'s contracting and shutting-up about the *NECK* : Which was altogether owing to the injudicious *Method* of their *Practice*, in drawing down the *ARMS* awkwardly (as mentioned above) along the *SIDES* of the *Body*.



C H A P. XVII.

Of Preternatural BIRTHS, by Two, or more
INFANTS presenting themselves ill-Turn'd.

THIS Case also happens sometimes remarkably ; upon which, if *Both* or *All* are contain'd in one and the same *SECUNDINE*, or when the *MEMBRANES* are broken, then the right *VERSION* is very difficult ;

Ch. 17. *two or more Infants.* 267

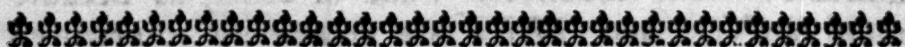
difficult; not so much for want of *Room*, as because their *HANDS* and *FEET* are commonly interwoven and twisted together: In which *preternatural Condition*, when so complicated and entangled, they are to be unfolded and cleared off *one another* with the nicest Circumspection and Judgment.

BUT besides, farther, they are otherways, only to be treated in this difficult Point, as if there was but *one CHILD*; for *turning* them always. *One by One* duly, I would bring all their *FEET* into the *Passage*, and consequently handle them, as if they had offer'd themselves so at *first*. The *first CHILD* being born, I would give it to the next capable *Person* to tie and cut its *STRING*; whilst I directly repass up my *Hand*, to seek for the *other's FEET*, by which I would also *draw it forth*, after breaking its proper *MEMBRANES*, in Case the *second FLOODING* is not yet over, and *that* notwithstanding the *HEAD* should present itself *First*.

BUT and if it happens, that *each CHILD* has its own proper and *distinct SECUNDINE*, and *That* of the *INFANT* already *brought forth* chance to be loose and separated from the *WOMB*; In that *Case*, I would presently fetch it away, and then extract the *other INFANT*, as long as there is *any* yet left behind, and *that* also by the *FEET*, as aforesaid: Whereas otherwise, the *BIRTHS*, together with the *Constriction* of their *UMBILICALS*, are to be previously accomplished.

IN fine, having *thus* accounted for all the *Preternatural BIRTHS* whatsoever, which may or can occur on the *Part* of the *INFANT*, and *that* conformable to the most nice and polite *Rules* of *ART*; It remains now in the next place, that I acquit myself in a consonant manner, with respect to *Those* proceeding from the *Part* of the *WOMB*. Of which *First* in general—





C H A P. XVIII.

*Of Preternatural BIRTHS, proceeding
from Causes of the WOMB.*

MOST, if not all, *Authors* having hitherto imagin'd, that all *Preternatural BIRTHS* took their sole *Rise* and *Origin* from the wrong *Positions* of the *INFANTS* only; I come in this place, with all due Submission, not only to affirm a quite contrary *Opinion*, but also to lay down a directly opposite *MAXIM*: Namely, that the most difficult and dangerous *Preternatural BIRTHS* proceed merely from the ill *Situation* of the *WOMB*; which I take to be the most common *Cause* of the *CHILD*'s wrong *Posture*. The Truth of which I hope to make evidently appear, to all such, who know and will consider, that this *Noble Part* is no less subject to various *Accidents* and different *Diseases*, than the *Rest* of the *Body*; which springing from divers *Sources*, may rationally be suppos'd to occasion *Preternatural BIRTHS*, and those more or less dangerous, according to the *Nature* of the *EFFICIENT*: as for Instance,

IN Case of an *Inflammation*, *Exulceration*, *Putrefaction*, or the *WOMB*'s being *Schirrous*, *Callous*, or *Hard*; affected with a *CARCINOMA* or *Cancer*; an obdurate *Gland*, *Cicatrix*, or any *carnous Excrecence*; or in Case of the *WOMB*'s being *Dry* and *Rigid*, and the *Orifice*'s being *Hard* and *Thick*, as commonly happens to *WOMEN* in *Years*, especially of their *First CHILD*; I say, from either of these, or any such like *Causes*, a *Preternatural BIRTH* may ensue, and that even tho' the *PELVIS* and *PASSAGE* be larger, but much more if those be narrower, and the *Point* of the *Os SACRUM* bent *Inwards*.

I. IN the *Larger PELVIS*, the greatest *Difficulty* of this *BIRTH* proceeds from too great a *Descent* of the
WOMB;

Ch. 17. *from Causes of the WOMB.* 269

WOMB; which relaxes the *Ligaments* and *Fibres* of the VAGINA, and so much depresses the *Bladder*, that an *Incontinency* of URINE presently follows, which in this *Case* is commonly succeeded by a *Falling Down* of the WOMB or VAGINA, as already observ'd in *Chap. XI.* where the Diligent MIDWIFE will find the due *Method* of preventing such growing *Mischiefs*, and of opening the *Orifice* of the WOMB both safely and readily, and consequently *Delivering* her *Woman* more easily and expeditiously, with good Success as well as Security.

II. IN the narrower PELVIS, the MIDWIFE needs no ways fear the above-named *Accident*, and therefore is not to be at so much Pains in retaining the ORIFICE in its proper Place, whatever Trouble she may have in opening it; which would be no easy TASK, was not the Os COCCYGIS to be thrust back, (as set forth, *Chap. IX.*) And which I must (for this Reason) recommend once more to all Careful MIDWIVES, as the best and most effectual METHOD of performing this happy *Aper-tion*.

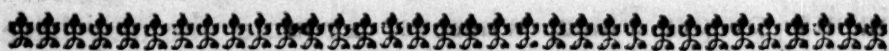
FROM what is said here therefore, we may now conclude, that a great *Variety* of CAUSES may subject the WOMB to a Diversity of ACCIDENTS, and those of sundry Degrees, which may more or less affect its *Motion* and *Situation*, as already set forth *.

AND hence it is that we have so many Degrees of *Preternatural BIRTHS* on Part of the WOMB, All which to enumerate particularly in this Place, would be a WORK as *Superfluous* as *Tedious*: wherefore, to be brief, I shall here also reduce them to the FOUR following, (as before mentioned, SECT. IV. *Chap. 13.*) viz. *Preternatural BIRTHS*, proceeding from an *oblique Situation* of the WOMB inclining *Forwards*, or *Backwards*, or to (either *Side*) *Right* or *Left*: which fourfold *Situation* of the WOMB may be rightly and properly compar'd to the *Four Cardinal Points* of the COMPASS, as the rest of its *oblique Positions* may be analogously adequated to the Colla-

* *Vid.* SECT. IV. *Chap. 12, & 13.*

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teral and Middle Points : For because, as they decline from the *Meridian*, and derive themselves from *EAST, WEST, NORTH, and SOUTH*, as formerly observ'd *; so *those* are less difficult *BIRTHS*, and branch out from the *Four* mentioned *Extremities* : since the *WOMB*, like a *Magnetick Needle*, may run quite round, and be ill-seated every way, or on every *side*. In all which *Cases*, the *INFANT* must absolutely be *Turned* ; which *Performance* in any *oblique WOMB*, requires a competent solid *Knowledge* and sound *Judgment*, as well as the best adapted and experienced *Hands*. But of *those*, more particularly hereafter ; and *First*, accordingly—



. C H A P. XIX.

Of Preternatural BIRTHS, from the WOMB's inclining Forwards.

IN speaking to this critical *Point*, I shall *first* give the *Reason* of such a *BIRTH*, occasion'd by this *Position* ; to wit, The *WOMB* hanging much *forwards*, especially in *Women* carrying it too *low* in the *ABDOMEN*, the *INFANT* (betwixt the *Pains*) must needs be forced upon the *Os SACRUM*, or the *VERTEBRÆ* bending *inwards* ; which stops the *HEAD* that it cannot conveniently or without *Obstruction* fall into the *PELVIS*.

H O W E V E R, in this *Condition* we suppose the *INFANT* to be *well turn'd*, I mean (both *here* and *elsewhere*) *well turn'd* in respect of the *WOMB*, with the *Crown* of the *HEAD* lying against the *Orifice* ; than which nothing can be more *Right* or *Natural* in regard of the *WOMB* itself, nor more *Wrong* and *Preternatural* in respect of the *PELVIS* and *Vagina* of the *WOMB*, in this *forward Situation* : Because by reason of this *Posture*,

* *Vid.* SECT. IV. Chap. 13.

Ch. 19. the WOMB's inclining forwards. 271

the *INFANT* falls *transverse* upon the *OSSA PELVIS*, especially upon the *OS SACRUM* or *hindmost VERTEBRÆ*; upon which it commonly offers itself with the *FACE prone* or *turn'd Downwards*, tho' it is not brought forth, but with the *FACE Supine* or *Upwards*. For as it passes, it must be *turn'd round*, partly in a *Circle*, with its *HEAD prone*, and *FEET* drawn up under it; which happens not in the *WOMB*, but only as it passes the *Orifice* into the *PELVIS* or *VAGINA*.

NOW what I mean is more plainly *This*, that as soon as the *INFANT* comes into the *Turning* (which it must pass) it necessarily *bends* and *crooks* itself, as it finds its *PASSAGE bent* or *crooked*; by which means the *FACE* is sometimes *turn'd down*, and sometimes *upwards*: And *This* proceeds from *THAT*, in short, as soon as the *HEAD* begins to enter the *Orifice*, it presently fixes upon (and sticks fast to) the last *VERTEBRÆ* of the *Loins* standing *forwards*, or to the *OS SACRUM*; so that it cannot naturally or possibly go *forwards*, except the *HEAD* is *bent downwards*, and the *Neck* and whole *Body* be accommodated to that *BENDING*.

HENCE it is, that *THAT* which just now was *situated prone* upon its *BELLY* in the *WOMB*, now passing through the *VAGINA*, is *bent upwards supine* upon its *BACK*; and from thence it's evident, that *That Inversion* is not properly in the *WOMB*, but in the *VAGINA*, or (if you please) in the *Confiner* of BOTH: And, in fine, this *forward Inversion* (as it happens) occasions a most difficult *Preternatural BIRTH*.

BUT *this*, in short, happens to the *Woman* with *CHILD*, because her *WOMB* hangs forward, or is *re-supin'd*, according to the *Depression* made on the *WOMB* by the *Intestines*, forcing it *this* or *that way*; or to either *Side*, as will by and by more fully appear*. But—

SINCE it is most requisite to know presently in the *Beginning* of *LABOUR*, whether the *WOMB* be placed *forwards*, in order that the *Means of Help* may

* *Vid.* Chap. 22.

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be taken accordingly ; I shall in the *second place* add the *SIGNS*, or *Tokens*, by which the *MIDWIFE* may know this *Position* of the *WOMB*, and what *she* has best to do in such a nice ticklish *STATE* of Affairs.

FIRST then, *She* may know it, principally, by the *Hanging forwards* and *Thickness* of the *BELLY*, or perhaps by the good *Woman's Information* of the *PLACE*, where *she* chiefly feels the *INFANT* stirring ; for it cannot *move* but where 'tis *placed*.

HOWEVER yet a prudent *MIDWIFE* will have no great regard to such *Uncertainties*, but betake herself immediately to *that* which cannot fail her, the *TOUCH* ; which (in this *Case*) affords her the following certain *SIGNS* ; viz.

I. *THE Orifice* of the *WOMB* is suspended *higher* than usual ; which *she* cannot *Touch*, by reaching, without a great deal of *Difficulty*.

II. *SHE* can only *Touch* the lower *Border* of the *Orifice*, and that only as the *WOMB* hangs more or less *forwards* ; and by no means the *upper Edge*, except the *Orifice* has begun to *fall down*.

III. *SHE* cannot at all, or very hardly, get her *Finger* into the opening of the *Orifice*, and because of that *Difficulty*, it must then also be *crooked* or *bent*.

IV. *SHE* will find the *Orifice* opposite to the *bending* of the last *VERTEBRÆ* or the *Os SACRUM*, and feel it so strongly pressed against the said *VERTEBRÆ*, when the *Pains* come on, that it cannot *fall down* : and lastly, *she'll* feel the *WATERS* (if they hang over the *Passage*) in a thin *slender Form*.

UPON This the *Skilfull MIDWIFE* finding these concurring *SIGNS*, *she* may be assur'd that the *WOMB* hangs too much *forwards* ; which *Condition* requires the immediate *Help* of *Ingenuity* and *ART* to correct this ill untoward *Position*, and to promote the *BIRTH* expeditiously. But then *these Things* are to be carefully perceiv'd and distinguished in the *Beginning* of *LABOUR*, before the *PAINS* have either closed up, or too much depressed the *Orifice* ; yea, in short, even before it sensibly

Ch. 19. *the WOMB's inclining forwards.* 273

sibly opens: since afterwards all those *SIGNS* are variously chang'd and alter'd, till at last they entirely vanish.

WHEREFORE let it be deem'd as a certain *Rule*, that the true *Posture* of the *WOMB* is always best discover'd by the *Touch* in the *Beginning* of the *LABOUR*: At which time may the *Orifice* be suspended never so high, the *MIDWIFE* ought to penetrate so far, until *she reaches* it; if not sufficiently with her *FINGERS*, the whole *Hand* is to be judiciously used, and passed up that *Length*, because this particular *Touch* is absolutely Necessary for that good End: Insomuch that if any *Labouring Woman* be against this *manual Operation* or opposes it, *she* thereby debars her *MIDWIFE* of an infallible *Method*, of discovering the true *Posture* of her *WOMB*, and consequently of taking the most immediate proper *MEANS* for *Her own* as well as her *INFANT'S* Relief.

BUT now supposing, after all, the *MIDWIFE* to be certain that the *WOMB* hanging too much forwards, in a prominent *BELLY* bearing pretty much out, is deeper depressed than it ought to be; *She* is obliged then in this *Circumstance* to consider accordingly how to correct this *Preternatural Situation*, and assist both the *MOTHER* and *INFANT* for the best: To which End, *She* ought FIRST, to endeavour that the *HEAD* may fall down into the *PELVIS*, even to the bending of the *Os COCCYGIS*; and then, SECONDLY, *She* is thence to advance the *HEAD* gradually, that the *Exclusion* of the *CHILD* may be expedited and intirely perfected at last.

NOW in order that the *HEAD*, together with the *Orifice* of the *WOMB*, may be so discreetly brought forwards into the *PELVIS*, the *Woman* is to be placed with the upper part of her *Body* lower than the inferiour; I mean, with *Head* and *Shoulders* bending downwards, and the *Buttocks* upwards; by which Means, the *Bottom* of the *WOMB* is elevated, and gives the *Orifice* an Opportunity of being brought more easily into the *PELVIS*.

T

THEN

274 Of Preternatural BIRTHS, from §. V.

THEN the parturient *Woman* being so placed, the *MIDWIFE* (using both *Hands*) ought to clear the *WOMB*, together with the *Head* of the *INFANT*, by putting the *one* up, as far as there's occasion, into the *VAGINA*, and laying the *other* upon the *Woman's BELLY*, in manner following: *viz.* —

THE *Hand* in the *VAGINA* is (by having two or three of its *Fingers Ends* extended to the upper Border of the *Orifice* of the *WOMB*) to move it a little beyond the *Head* of the *CHILD*, and to direct it into the *Mouth* of the *PELVIS*, so that it may fall the more readily down into the design'd Place. But in this critical Juncture the *MIDWIFE* must always take special Care not to squeeze or press the *Top* of the *HEAD* too much, nor to handle it too hard, lest *She* should thereby wound, if not also kill the *INFANT*.

AGAIN the Business of the *other Hand*, used externally, is to drive back the *WOMB*, by pressing the *Abdomen*; which must be perform'd also with great Caution and Judgement, not by drawing the *HAND* from above downwards, but pressing as much as the *Woman* can bear it, from below upwards; so that (if possible) the *WOMB* may be thereby resupin'd or turn'd backwards. Minding always, by the way, that

THIS Pressure of the *WOMB* is not to be attempted, before the *one Hand* is first conveniently placed within. But if all *This Menage* should not yet succeed the first time according to Wish, then it may be safely repeated again by turns so often, until the *MIDWIFE* feels the *Crown* of the *HEAD*; that is to say, till *She* feels the Borders of the *Orifice* quite round about hanging over the Entrance of the *PELVIS*. Upon which happy Discovery, *she* may with reason rejoice in her Labour, and be heartily glad of her good Success: Because now the Force of good depressing PAINS only will effectually perfect the Work.

BUT before Matters are happily brought this prepared Length, the bearing *Woman* is upon no account to begin her LABOUR; since That would not only be
in

Ch. 19. the WOMB's inclining forwards. 275

in *vain*, and otherways debilitate the Strength of her Body ; but also be of great *Hindrance* to the *MIDWIFE* (to whom all the *LABOUR* hitherto belongs) who, as *she* feels the *PAINS* growing and rushing in upon the *Woman*, before their proper Time, ought to charge her strictly, to forbear *working* along with them, and as much as possible to abstain from any *co-operating Depression*. And in fine, as the *MIDWIFE* by having her *Hand* diligently apply'd to the *Orifice* of the *WOMB*, by strict Attention, may most commonly observe, and previously discern the approaching *PAINS*, before the Patient *Woman* herself can be sensible of them : So *she* ought also for her *own helping Part*, *ex Officio*, to be quiet and attempt nothing till *Then*, but take her convenient *Opportunities*, always as soon as the *PAINS* are over.

THUS by seasonably lending *NATURE* an artificial *helping Hand*, BOTH jointly may easily effect, what neither can do *separately* : For as it sometimes happens, that the *MIDWIFE* ought to *cease*, while *she* perceives (by the *PAINS*) that *Nature* is a working, and therefore ought to *work* only when the *PAINS* are past ; so it also falls out often, upon other Occasions, that *she* is to *work* along with the *PAINS*, and when those are *past*, to *cease*. And thus, in fine, according to different *Circumstances*, the discreet *MIDWIFE* knows always the *NEEDFULL*, what's to be done, or let alone.

BUT in this Place, I doubt not, many *MIDWIVES* will object, and say, How is it possible for *Us* to perceive the *PAINS* coming on before the parturient *Woman* herself ? To which I ingenuously answer, that *This* also is one of the many Advantages of the Touch ; since by *That*, I can presently feel a kind of *subtile Motion*, *Contraction*, or *Compression* beginning in the *Orifice* of the *WOMB* ; which is only observable as the *Muscles* are affected with a *New Sense*, excited by a *New Influx* of the *SPIRITS* ; occasioning a *New Force* or *Impression* upon the *WOMB*, which we commonly call a *PANG* : So that, in short, by distinguishing *this Motion* from

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others, I am always able to foretell or advise the *Woman* of what is a-coming, and to admonish her accordingly of her bounden *DUTY*, as the *Case* requires.

MATTERS now being fairly brought thus far, that the *Orifice* and the *HEAD* begin to slide down into the *PELVIS*; the *MIDWIFE* is at this *Time* to study how to succour and assist the *CHILD*, by rendring its *Passage* easy. In order to which, *she* must first observe to raise the *upper Part* of the *Woman's Body* a little, and give her some short *Respite*, before *she* offers to bring the *Orifice* into the *PELVIS*; because the *Posture* above-directed, occasions considerable *Pain* as well as great *Inconveniency*: Which being done, the *Woman* for the future is to sympathize with every *PAIN*, and *Labour* as much as possible, co-operating mutually with them; since now the *PAINS* (by the Assistance of the *HEAD*) begin to open the *Orifice*, and gradually force the *INFANT* forward to its *Birth*.

HOWEVER yet the *MIDWIFE* ought in this *Case*, to be very careful in sustaining, and nice in keeping up the *Orifice* of the *WOMB*, lest it should fall down together with the *Vertex* or *Crown* of the *HEAD* into the *Sinus Sacri*; which is a *Point* so curious and critical, tho' an *Accident* too common, that I dare well say, not one in *Fifty Practitioners* in *WIDWIFERY* understands it thoroughly; otherways I am confident, and morally certain, that many *fine Women* would have been living *Monuments* of their *Ingenuity*, who are at this day only the *Dead Remains* of their *Ignorance*.

THIS I think is past all *Contradiction*, when we consider, how some *Practisers* sacrifice the *INFANT*, first by opening, and (as they call it) *braining* the *HEAD*, and then by drawing it forth with their *Instrument* call'd *FORCEPS*: How others also esteem themselves *Masters* of the greatest *ARCANUM*, boasting that they can, without so much as *braining* the *HEAD*, extract the *INFANT* by their *Tool* call'd an *EDUCTOR*: How a *Third Set* again pretending themselves to be the only *genuine Sons* of *APOLLO*, come sily

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stily to correct the *Rest*, by fixing only a couple of *HOOKS* in the *Eyes*, *Ears*, or somewhere else in the Child's *HEAD*; by which means they as wretchedly produce the *innocent* dead *Babe* as any of the *others*: For it can no more be suppos'd to *survive* this cruel *Treatment*, than the other mentioned *Barbarities*; not to speak of the *Anguish* and *Perplexity* over and above, besides the real *Danger* all the while brought upon the *distressed Mother*.

UPON this grand Affair of Life and Death, the Desidious and Capricious *MIDWIFE* cries at length, God knows I have taken all the *Pains* and *Care* I could, but to no *Purpose*, for this or that trifling *Reason*, falsely alledged. The *SURGEON* (if he don't pretend the *CHILD* to be already *Dead*) says, Come, it is better to dispense with *one Life* than *Two*; *One must go*, &c. In consequence of which, he prepares his *FORCEPS*, *EDUCTOR*, *KNIVES*, *HOOKS*, &c. to draw out the *INFANT* *Dead*, or *Alive*, *Whole* or in *Pieces*, by such disingenuous and barbarous *Means* to save the *MOTHER*. Thus behold the excellent *Art* of *MIDWIFERY* ignorantly perverted! O Deplorable Woman! O Miserable Babe! How much abused! when there is no *other Mean* left to rescue the tender *Life* of the poor *Mother*, but by the massacrous *Death* of her dearest *CHILD*! This *Case* indeed would be very *Melancholy*, but *Glory* be to *GOD* who has neither left the *One* nor the *Other* to perish at this untimely or inhuman *Rate*, excepting it be by *Ignorance*, or *Wilfulness*, &c. as aforesaid: No, on the contrary he has provided an *EXPEDIENT* for every *Extremity*, and a *REMEDY* for every *Malady*, as in the present *Case* will appear farther by what follows, *Viz.* —

THAT such *Tragical Events* may be prudently prevented, I use my constant and unwearied Endeavours to sustain the *Orifice*, that it may not come below its proper *Place*; and that having clear'd the *HEAD* of the *WOMB*, I may only bring it alone down;

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which I can much more easily do, than if it was cover'd about with the WOMB, sticking fast (as above) in the *SINUS SACRI*. And supposing the *MEMBRANE* to press strongly instead of the *HEAD*, I treat it all one as if it was the *HEAD*, taking always Care not to *break* it, tho' the *forming* of the *WATERS* is not to be obstructed; for which Cause, I upon all Occasions stretch out my *Fingers* wide, applying them only to the Edges of the *Orifice*, not to the *Membrane*: And this I continue doing, until the *MEMBRANE* spontaneously *breaks*; upon which I manage the *HEAD* as aforesaid.

THUS the *Infant's HEAD* being excluded with the *Crown* foremost, there is no more Occasion to be at any Pains in *keeping-up the Orifice*; wherefore I now suffer it, together with the *HEAD*, to *fall down* past the *Bending* of the *OS SACRUM*; which now also, the *major Part* of it being bare, more easily happens, than it possibly could whilst it was cover'd with the *Orifice*. Upon this, that the *CHILD* may be farther relieved and brought out, I now again make use of both *Hands*, the *one* inwardly, the other *outwardly*, as before: But as the *Condition* is now much *alter'd* from what it was at that time, I at present proceed after a quite *different Manner*, and work along with the *PAINS*, *resting* only as their *Force* ceases: For thus I not only observe the *PAINS* my self, but also at the same time encourage my *Woman* to *Labour*, and to persist in her *LABOUR* with all her *Strength*; and by Turns, as the *PAINS* come on, to conjoin their *Force* with her own and my mutual *Endeavours*, in the manner following: namely,

HAVING *One Hand* in the *Vagina*, with its *Back* turn'd towards the *RECTUM*, I thrust very cautiously the *Points* of my *Fingers* as far as I can under the *HEAD*, where I hold that *Hand* constantly, until the *PAIN* comes on; laying the *other Hand* upon the *Belly*, about that Part where the *Bottom* of the *WOMB* lies: Then as I perceive the *PAINS* come on, I begin to work with both *Hands*; to wit, by pressing
the

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the *internal Hand* gently downwards, against the Point of the *SACRUM* to remove it *back* out of the way; whilst by the *external Hand*, I gently raise the *WOMB* into a *resupine Posture*, pressing it also softly downwards: I mean softly in Proportion (howsoever) to the Force of the *PAIN*: for as it gradually *encreases*, and more and more excites strong *LABOUR*; so I also by degrees press down more strongly.

HOWEVER yet the *External Depression* ought always to be *Moderate*, as the *Internal* ought to be *Strong* and *Vigorous*: Whereupon *Matters* being carefully well observ'd, (as laid down in *Chap. 9.*) no *MIDWIFE* needs be afraid of hurting her *Patient Woman* in the least; no rather, on the contrary, the more *Strength* I use now, the more grateful and agreeable I prove to *Her* being thus circumstantiated. And, in fine, the upper Part of the *CHILD's* Body being once past that *Sinuous Bending* above, it presently breaks out all together, and comes away so happily into the World. After which the *MIDWIFE* is only farther to behave herself with respect to both the *MOTHER* and the *CHILD*, as in the *Natural Case**, carefully cleansing, restoring, contracting, and shutting the *WOMB* as *Before*. In a Word, with so great Success at last the *BIRTH* is accomplished, provided these *Precepts* be carefully and timely observed.

BUT that the *Ingenious* may be at no Loss in this momentous Affair upon any Occasion, we shall now particularly state the CASE, in which the ordinary *MIDWIFE* has thro' Ignorance or Negligence, let *Matters* come so far, that the *acuminated* or lower Part of the *WOMB* is fallen into the *PELVIS*; and the *Orifice*, together with the *HEAD*, is broken thro' into the crooked *Sinus* of the *OS SACRUM*, and is fixed-up there; that the *MEMBRANE* is broke; that the *Infant's* *HEAD* is but a little bare; that the poor *Woman* (after the *Fatigues* of a strong or long *Travail*) is quite spent and tired; and finally, that

* SECT. iv. Chap. ult. & SECT. vi. Chap. 7.

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all these Things have *happen'd* before the extraordinary *MIDWIFE* is perhaps sent for, or at least before He can conveniently be with the *Woman*.

I N this Pitiful Case, the *HEAD* being yet but a little *bared*, and sticking fast in the *Sinus* of the *Os Coccygis* (as abovesaid) the *CHILD* cannot possibly make any *Impression* upon the *Orifice*, so as to open it; and therefore the *Situation* of the *WOMB* is to be alter'd: In order to which, I first place the *Woman* on a commodious *Seat* adapted to the Purpose, such as upon a *Pallet*, or *Low Bed*, or some *Pillows* laid on the *Ground*; that she may lie with her *FACE* downwards upon her *Knees*, with her *Head* low; her *Arms* being supported with so many *Pillows* as are requisite to sustain her *Body* (leaning upon them) without moving.

N O W I doubt not but some People will think this a *strange helpless Posture*; but as strange as it is, it is certainly the most *effectual*, and the *absolute best One*, which can be devis'd for the *Woman's* desir'd *Relief* in this desperate *Condition*: For by the Help and Means of it, the *WOMB* is carried down into the *lowest Part* of the *Belly*, through its own *Weight* only; and consequently releases itself out of the foremention'd *crooked SINUS*; which that it may the sooner and more commodiously do, I put my *Fingers* into the *VAGINA* behind, betwixt the *RECTUM* and the *HEAD* of the *Infant*, where I press down the *WOMB*, till the *Orifice* is so far forced back, that there is *Room* enough to hold it up, in order that it may not relapse; and also that there may be *Room* for the *HEAD* to be depressed into, and open the *Orifice*. Thus the *WOMB* and the *CHILD* being at last forced so far back, by an expert *Hand*, the *BIRTH* may be successfully perfected by the above-prescrib'd *Means* and *Method*; provided always that the *Woman* has sufficient *Strength* and *PAINS* to carry her through the fatiguing *Tryal*.

B U T we will now suppose, for better Instruction-sake, her *Strength* to be quite spent, and the *PAINS* to be deficient; in this *CASE* the happy *Issue* of the *BIRTH*

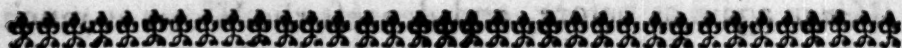
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BIRTH is most dubious; but however, then I place the *Woman* again as before, and depress the *WOMB* as much as I can, until I reduce the *Orifice* farther up into the larger *Space* of the *PELVIS*, that I may the more conveniently open it by the *Help* of an *inward Hand*; and by *that* also moving aside the *Child's HEAD*, I then seek for, until I find, the *FEET*; which, upon the *INFANT's* being right turn'd, with its *TOES downwards* towards the *Mother's RECTUM*, I bring into the *Passage*. Now the *FEET* being thus in the *Passage*, the *Woman* needs not lie any longer in the abovesaid *Posture*; but, turning herself, may now lie with her *FACE upwards*: When I also give her previous *Notice* to prepare herself to *depress* vigorously; I mean as much as she can possibly, when occasion requires.

IN the Interim, holding the *FEET* all the while with my *internal Hand*, I attract them gently *outwards*, until the *BUTTOCKS* and the *BELLY* are excluded: Then taking fast hold of the *CHILD* by *one Hand* under the *BELLY*, and the *other* upon its *BACK*; I advise the good *Woman*, in *Case* she feels no *PAIN*, to behave herself as if the *PAINS* were most pressing upon *Her*, and to contribute by *forcing downwards* what lies in her *Power*; whilst I continually *attract*, and gently *draw* the *INFANT* towards me, until by this discreet *Management* the *HEAD* is totally excluded, together with the *ARMS* into the *World*. And *thus* at length the *Distressed Woman* may be happily delivered in all these different *Cases*, and difficult *Conditions* of *Life*. Whence I come to—



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C H A P. XX.

Of Preternatural BIRTHS, from the WOMB's inclining backwards.

EXPERIENCE teaches us, that the **WOMB** may be also too much *resupin'd*; or tending with its *Bottom backwards*, may be pressed too much towards the **SPINE**: So that its *Orifice* is not only raised too high in the **BELLY**, but is also so *obliquely seated*, that it no more answers to the **VAGINA** in a *right Line*, varying more or less, according to the *Proportion* of this *Tendency* to the **BACK-BONE**.

FROM this *Posture* of the **WOMB** now, it necessarily follows, that the **HEAD** (tho' never so well turned) falls upon, and is violently forced against the **Ossa PUBIS**; where the tender **HEAD** sticking, often happens by its own *Struggles* and the *Mother's PAINS*, to be grievously squeez'd and gradually crush'd, so that, until it is removed and brought into the **PELVIS**, the *Woman* can by no means bring forth her **INFANT**. Wherefore the diligent and careful **MIDWIFE** must (by due *Attention*) make it her *Business* to discern at the *first Touch* this *ill Position* of the **WOMB**, and presently upon the *first Pang* of **LABOUR**, try to help both the **MOTHER** and the **CHILD**.

WHEREAS otherwise the slothful and ignorant **MIDWIFE**, may continue the poor *Woman* in an irregular **LABOUR** perhaps some *Days*, without perceiving the **HEAD** to be fixed upon *these Bones*, always erroneously imagining the **INFANT** only to be situated too high, (because it lies out of the reach of her *shallow Touch*) and that it must in due *Time* fall down lower within her *Ken*. Or peradventure otherwise, when by the *Touch*, she feels a kind of *Roundness* or *Hardness*

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ness, thro' the WOMB, mistaking *This* for the HEAD, she thinks the *INFANT* is well turned, and wants only strong PAINS to drive it forwards with Success.

THIS Ignorance is chiefly owing to her own Stupidity, in that she cannot clearly distinguish between the WOMB and the VAGINA by the TOUCH; nor the Orifice of the WOMB from the Parts of the CHILD, or MEMBRANE; which (in this Case) frequently occasions the Death of many a Dear MOTHER and INFANT.

BUT here it is to be moreover noted of this difficult Situation of the WOMB, that the MIDWIFE (how skilful soever) perhaps can either not touch the ORIFICE at all, or but very little, except it lies wide open, when she may touch at least some Part of the CIRCLE of the Border: For the HEAD being fixed upon the PUBIS above, the whole upper Part of the Edges of the ORIFICE can no ways peradventure be touched with the Fingers, which may only reach the lower Part that is Open.

UPON which, these Fingers are cautiously and prudently to be thrust in farther betwixt the Neck of the BLADDER, and the Orifice of the WOMB: Then being so near the Neck of the Bladder, a discerning MIDWIFE will feel a sort of a Circular Border, namely, that of the Orifice of the WOMB; which if she penetrates with her Fingers, she will also find the hard Part of the HEAD, which is Smooth and Globular, or the opening of the VERTEX; whence she may be certain, that the INFANT, as well as the WOMB, is too close to the SPINE of the Back. Whereupon she ought, without loss of Time, to assist and help the CHILD in the following Manner; viz.

SHE is to hinder the Woman from labouring all this while, advising her to bear and put by her PAINS, until this Posture of the INFANT can be duly corrected: In order to which, I would FIRST order the Woman to make Water, if she can, that the BLADDER being thereby emptied, may not be hurt by the Pressure of the MIDWIFE's Hand, or the CHILD's Head:

SECOND.

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SECONDLY, if the *MEMBRANE* is not yet broken, and the *PAINS* but *few* and *faint*, I would prescribe a gentle *CLYSTER*, not only to awaken *These*, but also to remove all *Inconveniencies* of the *RECTUM*: THIRDLY, I would then advise to lay the *Woman* in a convenient manner, upon her *BACK* with the *superior* Part of her *Body* lower than the *inferiour*, that both the *WOMB* and the *INFANT* may the more easily recede or *give way back*.

THEN taking cautiously Hold of the *Border* of the *ORIFICE* with the *Fingers* of *either Hand*, I would press and draw it *back* towards the *RECTUM*, whilst I employ'd my *other Haad* outwardly upon the *ABDOMEN*, a little above the *OS PUBIS*: I mean, that the *Child's HEAD* ought to be *thrust back* a little with the *Hand on the out-side*, pressing it discreetly *down*; as the *ORIFICE* is to be drawn *back* towards the *RECTUM*, and at the same time also *downwards*, with the *internal Hand*.

IN the next Place, as I feel the *HEAD* and the *WOMB* mov'd a little *downwards*, so I would also advise the good *Woman* to raise the *upper Part* of her *Body*, yet so as not to stir the *Lower*, and to *bend* herself as much as possible *Forwards*, sitting as if she was going to *Stool*: Because by this *Posture*, she raises both the *INFANT* and the *WOMB behind*, and consequently drives them *BOTH Forwards*, whilst I would in the *Interim* keep my *HANDS* very fast placed as aforesaid, ready to depress the *HEAD before*, that it may fall directly into the *PELVIS*. In short, the *HEAD* being thus disengag'd, I would now advise the *Woman* to observe her *PAINS*, and mutually *labour* with them what she can, with her *Body* mostly still in a *Sitting Posture*, or kneeling with her *Arms* conveniently supported.

BUT supposing the *INFANT* to stick very fast upon the *PUBIS* (which commonly happens by *Loss of Time*, or by misimproving a critical *Minute*;) and that the capable *MIDWIFE* finds both the *MOTHER* and the
CHILD

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CHILD in this miserable Condition, thro' the Neglect and Ignorance of *Another* : In this Case I would lay the *Woman* altogether upon her *BACK*, with her *HEAD* low, and her *BODY* a little *elevated*; then by the abovesaid *Method* I would try to depress the *Infant's HEAD*, observing however yet not only to press it down from *above*, but also first to *thrust it back*, and *depressing* it at the same Time : By thus *repelling* it, I would save the tender *HEAD* from being hurt by the *Depression*; since otherways these *BONES* would leave a *Dent* or an *Impression* upon it, if not also wound it over and above.

MOREOVER, supposing that the *MEMBRANE* should break by Chance, and that by enlarging the *Orifice*, the *HEAD* should be much *bared*: Then I would let the *Border* of the *WOMB* alone, and endeavour to thrust my *FINGERS* betwixt the *HEAD* (towards its *Upper-Part*) and the *OSSA PUBIS*; by which means One may most probably draw the *HEAD* *downwards*, along with the *Orifice*. However, in fine, this *Case*, (as well as all other *preternatural BIRTHS*) absolutely requires a sound *Judgment*, a quick *Comprehension*, a good *Conduct*, an easy *soft Hand*, and a dextrous gentle *Method* of treating the *parturient* and *patient WOMAN*. But, farther—

WE will again in the next Place *state* the *CASE* thus, that suppose the *HEAD* is too Big, and the *CHILD* so much compressed, that it cannot be brought into the *PELVIS* without great Trouble and Difficulty : In this Condition, before *Matters* come to an Extremity, I would (without Loss of Time) find out the *FEET*; in order to which, the *Orifice* (which is now commonly less *open*) ought to be cautiously *open'd* with a gentle *Force*, by thrusting first *one*, and then more *FINGERS upwards*, which are to be gradually *distended*, until at last the whole *HAND* is entered up to the *Wrist* : Whereby (after prudently breaking the *MEMBRANE*, I would now and then *thrust back* the
HEAD,

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HEAD, and put it upon one Side, as much as possible by ART.

BUT upon *This* here it must be carefully observ'd by the way, that I would pass my *Hand* close up along the *INFANT's Body* from the *Orifice* to the *Fund* of the *WOMB*, or to the *FEET*, that it may not come between the *SECUNDINE* and the *WOMB*, but betwixt the *MEMBRANE* and the *CHILD*: By this *Method* I shall neither hurt the *WOMB*, nor the *INFANT*; but the *HAND* distinguishing clearly all the *Parts* of the *CHILD*, I cannot miss finding the *Feet* with the greatest Certainty. Tho' I must acknowledge by the By, this to be the *Work* of a very strong and agile *HAND*, as well as of a sound and ready *Judgment*; because of the immense *Labour* and *Difficulty*, first in opening the narrow *ORIFICE*, and then in penetrating through it to the *Bottom* of the *WOMB*, as the *INFANT* obstructs the *Way*: not to mention the great *Inconveniencies* also besides, which arise from the *Turnings* and *Windings*, as well as from the *Length* and *Constriction* of the *Passage*. However yet—

THUS having found one or both *FEET*, I would draw them down both together, if possible, always turning the *TOES* towards the *FACE*. Whereas if only *ONE* can be found to be conveniently attracted, as it often happens, I make it fast by a running *Knot* on a broad *Ribband*, or by a certain *Bandage*, called *MITRA*, or with a soft *Linnen Rag* about four Inches broad; which I twist together, and hold in the *Hand* without the *Body*, as I pass the other up along this *LEG*, duly observing whether it is the *Right* or the *Left*, that I may know which of my *HANDS* will most commodiously find out the other *LEG*; and that *HAND* having reached the *CHILD's Belly* or *Buttocks*, I slide it along the *THIGH* to the other *LEG*: So that the *FOOT* being thus found, I bring it also down into the *PASSAGE*, according to the *POSTURE* of the *INFANT*.

BOTH

C. 20. the WOMB's inclining backwards. 287

BOTH FEET being now thus brought down, if they chance to be *ill-turned*, that is, with TOES up and HEELS downwards, I discreetly turn the CHILD, whilst I gradually draw forth the FEET. These, together with the BELLY, being fairly excluded, I hold the FEET with one Hand, whilst I put the other under the BELLY and BREAST, as far as possible: Or, resting the FEET in my Lap, with one Hand above, and another below, I take good hold of the BODY, attracting it gently. Upon this I advise and encourage my Woman now to labour her best, and that whether she feels any PAINS or not, since they are now no longer to be waited for with the Impatience of a happy Delivery.

BY this regular Method, in fine, the HEAD and both ARMS pass thro' the Orifice at once, and that without the least Danger; because the Smoothness of the TEMPLES affords always sufficient Room for the ARMS, as the Orifice relaxes and dilates, as has been already observed †. Now this, in short, I take, with Submission, to be the only genuine METHOD of perfecting a successful DELIVERY in the present preternatural Condition, whether the BIRTH be Dead or Alive: So that hence I proceed in course to—

CHAP. XXI.

Of *Præternatural BIRTHS*, from the WOMB's inclining to either Side.

THO' the WOMB may be obliquated (as has been said) either to the right or left Side; yet, to abbreviate this Work, I shall contract both Situations into one; and because the ingenious Reader may easily

† Vid. Chap. 16.

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apply what is said of the *one* to the *other*, I shall only treat of that inclining to the *right Side*.

THE most difficult *Posture* of this kind is, when the *Bottom* of the *WOMB* is placed deeper in the *right Side* towards the *LOINS*, tending more to the *Back* than the *Forepart*. Which the *MIDWIFE* may know to distinguish by the following *Signs*; namely, 1. By the *Place* where the Woman feels the *INFANT* move most. 2. By that part of the *Belly* which is most pointed and hard on the *Outside*. 3. By trying the Woman in the beginning of the *Labour*, before the *Pains* have moved the *WOMB* out of its *Place*, she will find the *Orifice* of the *WOMB* suspended higher, compressed to the *Spine* of the left *OS PUBIS* or *COX-ENDICIS*; by which means the said *Orifice* cannot be touched without *Difficulty*; and by no means the whole of it, but only the *lower Border*. 4. She will find the *INFANT's Head* thro' the *WOMB* and *VAGINA* (tho' not bare) laid a-cross the *PELVIS*, but cannot come at the *lower Part* of it; only with one or more *Fingers*, she may sometimes penetrate betwixt the *Spine* of the said *Bones*, and touch the *VERTEX*.

BY these *Signs* the *MIDWIFE* soon finds her *Task* most heavy and perplexed; for from thence proceeds the following *Difficulties*.

I. IN this *Posture* the *INFANT's Head* (as soon as it makes the least *Apertion* of the *Orifice*) is fixed upon the *Spine* of the left *OS PUBIS* or *COXENDICIS*; and the *Head* thus fixed cannot pass forwards, because those *Bones* cannot give way: From hence arise the *Aqua Furtiva*, or a flowing of the *Waters* by *Stealth*, or as it were, by *Distillation*; the *Orifice* as well as the *INFANT's Head* being shut up by the said *Bones*, so that neither the *Head* nor the *Humours* can open it; save only a little on the *lower Side*: Where the *Waters*, by pressing the *Membranes* downwards in an *acute Form*, break thro' that *acuminated Part*; as they also force the *Head* upwards, near to the *Border* of the said *BONES*.

II. IT

C.21. WOMB's inclining to either Side. 289

II. IT often happens, by these means, that the *right Arm* is excluded, and falls down to the *Shoulder* in the *PASSAGE*, the *INFANT* being left dry by the unseasonable flowing of the *Waters*: And the *Arm* being thus thrust forwards into the *PASSAGE*, the *Head* is more and more forced-back upwards, so that the *Neck* of Consequence is so bent, that it may easily break; and the *Crown* of the *HEAD* (falling against the *Spine* of the *PUBIS* or *COXENDICIS*) is so pressed upon it by the violent *Pains*, that the *BRAIN* may be readily affringed, and consequently the *INFANT* die before *BIRTH*.

III. THE most deplorable *Condition* of all is when, after all *Pains* and *Labours* suffered in vain, the *MOTHER* herself expires, without bringing forth her *Child*; as it too often happens, that after a long continued and miserable *Torment*, the *BIRTH* is not a Jot advanced, whereby of course the wretched *Woman* must undoubtedly yield up the *Ghost* for want of effectual *Help*. I say for want of *Help*, because the *Help* of such *MIDWIVES* as are ignorant of the various *Postures* of the *WOMB*, and the *Method* of correcting them; and of such as do not thorowly understand the *Touch*, but place all their *Hopes* in *Nature* and *Divine Mercy*; is as nothing, and of no *Effect* upon this *critical Occasion*: Since the audacious *Ignorance* of such *Creatures* serves only to tempt *God* and his *Providence*.

HAVING thus defin'd and laid down the fatal *Inconveniences* of this *Preternatural Situation*, I come now to shew *People* concern'd how to correct it and dispatch a happy *BIRTH*: In order to which, the *praliminary Articles* are the *MIDWIFE's* indefatigable *Industry*, and accurate *Attention* to the *Circumstances* of *Things*.

THEN supposing an *INFANT* to be brought forth *HEAD foremost*; the *Woman* is to be placed with the upper part of her *Body* a little elevated, the *MIDWIFE* then finding (by the *Touch*) the *Orifice* to be but moderately press'd upon the *Left OS PUBIS*,

290 *Preternatural BIRTHS, from the S.V.*

or *COXENDICIS* ; in this *Case*, she is to be laid down full upon the *right Side* a little obliquely, that the *WOMB* may fall back by its own *Weight*, and not relapse against those *Bones*.

NEXT after this I would endeavour to get my *right Hand-Fingers* above the upper *Border* of the *Orifice*, and thereby remove it a little, and bring it down nearer the *Cavity* of the *PELVIS*. To facilitate which *Work*, I would order some of the *By-Standing Women* to raise her *right Side* a little, which of *Consequence* raises the *WOMB* itself ; and thus I would, by raising and letting it down by *Degrees*, move it *forwards* into the *PELVIS* : However, always taking special *Care*, that the *WOMB*, together with the *Head*, do not slip down too far into the crooked *Sinus* of the *OS SACRUM*, so as to stick there, (as has been already precaution'd in the preceeding *Chapter* :) to prevent which unlucky *Accident*, I would advise to apply all possible *Care* and *Pains* in the *Beginning*, to sustain and keep up the *Orifice*, and to bare the *HEAD* sufficiently before its *Descent* ; observing also the same *Management* in point of the *Humours*, until the *Membrane* breaks ; which being broken, I would treat the *Head* in *Manner* as aforesaid.

NOW tho' the *HEAD* in this *Posture* offers itself as if it were bent aside, because of the *lateral Distortion* of the *WOMB*, I would first bring it to a *right Position*, and then manage it as if it had presented itself *directly* : And besides, the *HEAD* being thus directed into the *PELVIS*, I would always take care that the *Woman's Body* be bent a little towards the *left Side*, that the *CHILD* may the more readily be carried down by its own *Weight* into the *PELVIS*. But, in short, as to the farther *Exclusion* of the *INFANT*, and *After-Birth*, as well as the *Cleansing* and *Contraction* of the *WOMB* ; These Things are to be perform'd, as directed by the foregoing *Chapter*.

HOW

C.22. *oblique Situation of the WOMB.* 291

HOWEVER, we will now state the *Case*, and suppose that the *Woman* is spent and tired out with continual hard *Labour*, before the capable *MIDWIFE* is sent for: Upon this *Condition* the *BIRTH* is to be hastned by all possible prudent Means. In order to which, I would (without Loss of Time) endeavour to turn the *INFANT*, and extract it by the *Feet*; Because to direct it otherways into the *PELVIS*, would be too tedious upon this *Juncture*. For to bring it *Head-foremost*, would create vehement *Pains*, which infallibly would expose both *Lives* to extream Danger. But now, in fine, having thus at large insisted upon the various *Cases* of *Preternatural Births*, arising from the four extream *oblique Situations* of the *WOMB*; It remains yet still, that I also subjoin a few Words, upon such *Preternatural Cases*, as may proceed from the less *oblique Positions of the same Body*; and that briefly in manner following——

C H A P. XXII.

Of Preternatural BIRTHS, proceeding from the Median oblique Situations of the WOMB.

AS the three preceeding Chapters concern only the Extremities of an *obliquated WOMB*, so they necessarily lead me in this Place to offer a short *Hint* upon the *Median* or *Less oblique Uterine Positions*. Which notwithstanding their great *Variety*, according to the just Comparison formerly made*, I shall for Brevity-sake comprehend in *One*, and treat of in general *Terms* as subsequently follows.

* Vid. SECT. 4. Chap. 13. & SECT. 5. Chap. 19.

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I. I observe that however conspicuous and remarkable the *Difference* of these *Preternatural Postures* may be, especially *That* betwixt the *Four* mention'd *Extremes* and the *Natural Situation* of the *WOMB*; yet I fear, that there is too much Reason to suspect, that this *Difference* is but little known to the generality of *Practitioners* in *MIDWIFERY*, otherways I am sure *Patience* would not be so much cry'd up, or at least *Time* would not be so much trifled away, (at every difficult *LABOUR*) by the *Ordinary Boethogynists*, neither would the Use of *SHARPS* be so much practis'd by the *Extraordinary MIDWIFE*.

II. I observe, that tho' a *WOMB less oblique*, occasions a *less Difficult*, or more easy *BIRTH*, than any of the *Extremes*; yet the least Degree of an *oblique uterine Posture*, may be of great Hindrance, and imminent Danger to the *Woman*, whose attending *MIDWIFE* is ignorant of it, as well as of the exact *Method* of restoring it to its *Natural State*.

III. I would observe by the way, that as the fatal *Consequences* of such Ignorance, have already been sufficiently precaution'd in the preceeding *Chapters*; so it would be *supervacaneous*, and altogether needless to re-assume or repeat them in *This*: Wherefore I shall only farther, once for all, exhort and adjure such *MIDWIVES*, as have any regard for their own *Consciences*, and the *Lives* of their Neighbours, that they would qualify themselves duly in these excellent Points of Knowledge. And *This* I have the more Reason to inculcate, because I never yet knew an assiduous *MIDWIFE*, who was *thus perfectly* well endued with the *essential Qualifications* of her *PROFESSION*, but the great *GOD* rather (to whom the Glory of all Things is due) perpetually compleated his own *Gifts*, and crown'd the *Labour* of her Hands with desirable *Success*.

FOR as the *Husband-Man*, who never sowed, can never expect to reap; or as the *Gardener*, who never planted, can never hope to gather; so neither can the
MID-

Ch. 22. *oblique Situation of the WOMB.* 293

MIDWIFE who was never regularly qualified, ever justly hope or expect to effect a happy *DELIVERT*; especially not in *Cases* of *Difficult* and *Preternatural BIRTHS*: Neither can the *Consequences* of her *Mistakes* or *Ignorance* on the other *Hand*, ever detract from, or lessen, the *Divine Power*, which is still the *SAME*, and can always do all *Things* that it will, but will not always do all that it can. Besides *HE*, who has been pleased to lay such *Burthens* upon us, to try the *Patience* and *Constancy* of *One*, and to exercise the *Industry* and *Charity* of *another*; *HE*, I say, often executes his *Judgments* upon *some*, for the *Sins* of *both Offenders*, that all *Things* may the more manifestly tend to his own eternal *Glory*.

IV. I come now in the *fourth Place* by certain *Demonstration*, to explain the *Nature* of a *WOMB* less *obliquated*, and to lay down the genuine *Method* of correcting any *Preternatural Situation* whatsoever of the disorder'd or distorted *WOMB*.

IN order to which, I would previously observe, that all such *Postures* of the *WOMB*, whether more or less, either tending *aside*, or *prone*, or *supine*, are only best discover'd by the *TOUCH*: Because the *Orifice* always answering in a *strait Line* to the opposite *Situation* of the *Bottom* of the *WOMB*, can never fail to shew its *Posture* to the judicious *MIDWIFE*.

HENCE if the *MIDWIFE* does but know exactly the *Natural Position* of the *ORIFICE*, she may thence easily conceive by how much it differs in an *obliquated WOMB*, and accordingly thereby readily judge whereabouts the *Bottom* is seated: Which *Situations* of *Bottom* and *Orifice* being known, she can consequently be at no loss to comprehend the *Disposition* of the whole *Uterine Body*. And if she now remembers or recollects what has been said of *restoring* and *replacing* the most *extream*, or most *oblique WOMB*, she will have no *Difficulty* in restoring any *WOMB less oblique* to its *Natural Posture*; This depending entirely

U 3

upon

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upon that Method, to which I refer *, for Brevity's
sake.

I N short, I shall here only add, that if the *INFANT* offers itself *well-turn'd*, in this *less oblique WOMB*; the *MIDWIFE*, having restored the *WOMB* to its right Place and natural *Posture*, will find nothing more to do, but to take Care to facilitate and enlarge the *Passage*, and receive the *CHILD* tenderly with the *Head foremost*. Whereas in *Case* the *INFANT* presents itself *ill-turn'd* in this *WOMB*, it is to be very circumspectly extracted by the Feet; as by and by will more amply appear from what ensues, *Viz.*—



C H A P. XXIII.

Of Preternatural BIRTHS, proceeding from complicated Causes, of both the INFANT and the WOMB.

BY this sort of *BIRTHS*, I mean such as are *Preternatural*, both in respect of the *Situation* of the *CHILD*, and of the *WOMB*. Which complicated *Preternatural BIRTH* is (of all others) the most dangerous; because of an *Indefinity* of Accidents and Difficulties with which it is always attended, according to the many various *Postures* in which both the *INFANT* and the *WOMB* are found: All which to enumerate here, and to guard particularly against them, as I have done in the preceeding *Cases*, would not only augment the *Bulk* and *Charge* of this *WORK*, but also be in some respect altogether *Needless*: Because if I was to content my self to treat this *Chapter* in *general* (without descending to *particular*) *TERMS*, I

* Vid, Chap. 19, 20, & 21.

would

Ch. 23. *the INFANT and WOMB.* 295

would not doubt but that the ingenious Reader would even thence readily form a clear *IDEA* of all such *BIRTHS*, from the many different *Cases* already stated and discussed; which if thoroughly well understood, the Rest cannot but be easily comprehended.

HOWEVER, that I may not leave the weaker *Capacity*, or the doubtful *MIDWIFE* to the Uncertainties of her own scrupulous *Judgement*, I shall propose and resolve some of the most difficult and dangerous *Cases* belonging to this *preternatural Subject*, and *that* as far as is really requisite, in manner following; *viz.*—

I. **WE** shall suppose that the *INFANT* is ill-turned, and presents itself *preternaturally*, with *FACE*, *CHIN*, *HAND*, *ELBOW*, *SHOULDER*, *BREAST*, *BACK*, *BELLY*, *SIDE*, *BUTTOCK*, *KNEE*, *FOOT*, or any *other Part* or *Member* first, in a *WOMB* tending *obliquely forwards*. In this *Condition*, I shall *first* show the *MIDWIFE* how, and by what *Signs*, she may know and discover such perverse *Postures*; and *secondly* how, and by what *Means*, *These* may be rectify'd, the *CHILD* extricated, and the *MOTHER* reliev'd in Life.

THEN as to the *First Point*, I would have it minded, that the *Touch* is the only *Expedient*, by which the *Situation* of the *INFANT* in any *WOMB*, whether *Oblique* or *Direct*, is to be discover'd and perfectly known. Which when the *MIDWIFE* finds to be *preternatural*, she needs not much trouble herself about what *precise Part* offers or comes *first* in the *PASSAGE*: Because of this short *Rule*, which I would not have her to forget; namely, That, when the *HEAD* does not present itself *first* in this complicated *Case*, the *CHILD* is to be drawn out by the *FEET*. For in this ill *Position* of both the *INFANT* and the *WOMB*, the *Version* of the *CHILD* succeeds more easily than if the *HEAD* was *foremost*: Wherefore I would lose no *Time*, but as soon as I had discover'd all *Circumstances* aright, I would commence my *Business* upon this *Occasion*, before either the *MOTHER* or the *INFANT* are much spent, that I may perform my *Work*, while they both

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can mutually concur with me towards their own Relief; That is, while the WOMB is yet suspended in the upper Part of the PELVIS, and the Membrane not yet broken.

IN order to this *Second Point*, the Woman being commodiously placed, the MIDWIFE is to pass up her Hand into the VAGINA, and dispose the Orifice of the WOMB to open, which is now sooner done than if the HEAD came first: This being done dextrously, she is to put first one or two Fingers, then all of them successively into the Aperture; and when that is sufficiently enlarged, she is to penetrate into the WOMB, and either break the MEMBRANE, or wait its spontaneous Breaking, as she judges best by occurring Circumstances. In the next place, she is to look for and find the FEET; and, the TOES being always turn'd towards the RECTUM, they are to be forthwith brought into the PASSAGE: proceeding still farther in the due and regular Method of extracting the CHILD, as already taught* and dilucidated.

II. WE will suppose moreover, that the INFANT is ill-seated, and presents itself preternaturally with any of the afore-mentioned Members first, in a WOMB hanging obliquely to either Side. In this Case, I would sincerely advise the MIDWIFE, to lose no Time in opening the WOMB, breaking the MEMBRANE, turning the CHILD, and extracting it by the FEET: Because in this Posture of both the BIRTH and the WOMB, Experience has taught me that nothing can be safer and less dangerous than this Method, when ingeniously and presently perform'd with Dexterity.

IT is true indeed it may be objected, that I dissent in this Matter, from most (if not from all) Authors: To which I answer, in short, that Those from whom I do differ, were never acquainted with this complicated preternatural Condition, but always supposed the WOMB to continue in its proper Place, never dreaming of its

* Vid. Chap. 19.

Ch. 23. *the* INFANT *and* WOMB. 297

various *Motion*, nor suspecting its *oblique Situation*; erroneously imagining all *preternatural BIRTHS* to proceed merely from the ill *Version* of the INFANT: In which *Circumstance* however, when it happens so, I confess they are so far in the right, that the HEAD is to be *first* brought into the PASSAGE, and the CHILD excluded by it with all possible Expedition.

BUT that I may farther elucidate the true *State* of this *Case*, as it becomes me to speak the *Truth* ingenuously, it is my candid Opinion that, in any *oblique Posture* of the WOMB, it is the safest, quickest, and most convenient *Method* to extract the INFANT by the FEET, and that presently in the *Beginning* of the LABOUR, either before or at least presently after FLOODING, as occasion requires. For this very Reason, and to this Purpose, I hope, I may farther justly lay down *one certain Rule*; namely, that all *BIRTHS ill-turn'd*, in a *WOMB ill-seated*, are to be rightly *turn'd* again, and drawn out by the FEET. Which *Rule*, if duly observed, will, I am positive, save a World of *Women and Children*, that otherwise must inevitably perish; since as for my part, I know no *Situation* of the INFANT in an *oblique WOMB*, more difficult or dangerous than the HEAD's offering itself *first*; and that because the *BIRTH* cannot be then *turned* without the greatest *Difficulty* and most extreme *Pains*.

THIS, in short, will be readily granted by All, who do consider or conceive that the WOMB (being fixed by *Ligaments* on both sides) is always more inclinable to fall *Forwards* or *Backwards*, than to either *Side*, and first most commonly *bends back* before it comes to any *lateral Posture*; and that from hence of consequence, the WOMB is *distorted* as well as *obliquely situated*. By reason of which *Distortion*, if the CHILD comes *Head foremost*, it falls down in the PELVIS *obliquely*; and tho' a judicious MIDWIFE may bring the HEAD directly into the PELVIS, yet the *Shoulders* following, must needs fall upon the PELVIS *a-cross*, in its narrower Part; whereby of reasonable Consequence the INFANT must be distorted in the *Passage*.

NOW

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NOW in this Case, no PAINS, how violent soever, can avail to force forwards the BIRTH so fixed upon these Bones; wherefore (I say) when the WOMB is thus seated, it is most safe in the Beginning of the LABOUR, to open its Orifice, break the Membrane, turn the CHILD, and take it out by the FEET; since by the HEAD's coming now foremost, both Lives are at Stake and in great Jeopardy.

HOWEVER yet it may be again objected, that I have already prescribed another Method in Chap. 21; viz. of bringing the Orifice together with the HEAD into the PELVIS, and promoting the BIRTH in that Manner: To this I answer, that my Reason for so doing, was not only to convince some People, that I know their Method as well as my own; but also to whet or assist the Judgment of such good MIDWIVES as cannot forsake their own old By-Paths: Not that I ever design'd to recommend it to any, tho' I must however acknowledge, that sometimes it may effect the desirable Ends; but according to the Rules of irrefragable Truth, and sound Judgment, we find that, in this Position of the WOMB, let the BIRTH offer itself as it will, the only laudable Method is without Loss of Time to extract the INFANT, and deliver the Woman as above-directed.

III. I observe upon the whole, that as the immediate present Case is applicable to either (right or left) Side; so what is said of the foregoing Condition, with respect to the WOMB's inclining forwards, may be easily apply'd to the Case of its tending backwards: Only with this considerable Difference, that the oblique forward Posture of the WOMB, is the most commodious of the Four mentioned Extremes, and consequently admits of a more easy Exclusion of the BIRTH by the Head, than any of the rest mentioned.

NOT but that either of these grand or complicated preternatural BIRTHS imply and prognosticate imminent Danger to the MOTHER, or the CHILD, or Both; as well as incredible Labour and Fatigue to the faithful MIDWIFE; who, in such Cases, can less distinctly feel,

Ch. 23. *the* INFANT *and* WOMB. 299

feel, less commodiously handle, and more difficultly come at the Matter, so as to dispose the *INFANT's* Members for *Attraction*, than in any other Condition of *BIRTH*: Hence it is, in short, that so many *MID-WIVES* are liable to the most egregious Mistakes, and unaccountable Deceptions upon these unlucky Occasions. But——

A G A I N farther, I hope I may freely speak my Mind, and openly avow, that the most of these *BIRTHS* proceed merely from want of seasonable and skilful *Assistance* in the beginning of the *LABOUR*: Because the *BIRTH* (however well seated then) by reason of the *bad Situation* of the *WOMB*, cannot possibly pass thro' the *PELVIS* of itself; and not being judiciously assisted at that nice Juncture, behold, from a *Natural*, it falls on a sudden also into a *Preternatural Posture*. From hence we have this extreme difficult and most dangerous sort of *Preternatural BIRTHS*, as will more conspicuously appear from a deliberate *Reflection* upon the preceding *Chapters*. And This much (I hope) may finally suffice any intelligent *Reader*, to conceive the different *Circumstances* of all complicated *Preternatural BIRTHS* whatsoever. Whence I go on to the *Fourth* and last Sort of *Preternatural BIRTHS* proposed; namely, *Those* proceeding from intervening *accidental Causes*; which because they are also different, I shall handle briefly and separately in the ensuing Manner; viz——



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C H A P. XXIV.

Of Preternatural BIRTHS, proceeding from the NAVE L-STRING's coming first, and that either alone, or with some other Member.

AMONG the various unhappy *Accidents*, which may happen in or about the Time of LABOUR, the present *Case* is none of the most auspicious; in as much as it may, in sundry *Respects*, occasion a very difficult *Preternatural BIRTH*, according to the Difference of Circumstances: For the NAVE L-STRING having fallen down and come first in the *Passage*, may be variously turn'd, and consequently cause several and sundry *Inconveniences*, as follow, viz.——

I. WHEN the *Umbilical Vessel* falls down alone into the *PASSAGE*, without any other *Part*, the *BIRTH* is then commonly situated a-crofs in the *WOMB*; and in this *Condition*, *BACK* or *BELLY*, *HAND* or *FOOT*, may be probably expected to come first: Wherefore the active *MIDWIFE* ought to discover the *real Posture* by the *Touch*, and that at least before all the *Waters* are yet flow'd-off and evacuated; and then betimes to fetch away the *CHILD* by the *FEET*, unless the *HEAD* be more convenient or pat for the Purpose. But these *Cases* being already particularly discussed*, I shall add nothing farther upon them in this Place.

II. THE *String* may fall down double, and so swell with *Cold*, as to obstruct the *Passage*, which however is but the smallest Consideration in this *Condition*, because by its hanging down double, it may be so

* Vid. Chap. 14, 15, & 16.

Ch. 24. *the Navel-string's coming first.* 301

shortned, that the *CHILD* may be detain'd, appending by it in the *Orifice*, until the *BLOOD* of the *Umbilicals* coagulating either by *Cold*, or by *Compression* in the *Passage*, the due *Circulation* is obstructed, and the *INFANT* expos'd to the greatest of *Dangers*, if a very speedy *DELIVERY* does not prevent the fatal Accident.

T H E Prudent *WIDWIFE* ought always to be very solicitous about this *Case*, making it her particluar *Care* from the beginning of the *LABOUR*, as soon as perceiv'd by the *TOUCH*, and before the *Waters* break, to avert or hinder its either coming *before*, or *along with the HEAD*, by removing it judiciously according to *Art*. But supposing she comes too late to prevent the *Mischief*, and that the *STRING* is already in the *Passage*; then it is to be *put back behind the HEAD* immediately, and kept there until the *HEAD* be fully directed into and lodg'd in the *Passage*. However it sometimes happens that it cannot be kept-up so *long*, and that the *MIDWIFE*, whatever *Pains* she may take, cannot hinder it from extruding itself at every *PANG*: In this *Condition*, I would advise her (without delay) to extract the *BIRTH* by the *FEET*, and that notwithstanding the *HEAD* should be *foremost*.

III. *I T* also happens sometimes, that the *STRING* without hanging down, is variously compress'd betwixt the *HEAD* and the *Bones* of the *PELVIS*, which (stopping or impeding the *Motion* of the *BLOOD*) soon occasions the *INFANT's* inevitable *Death*.

I N which *Case*, if pressed against the *OSSA PUBIS*, having laid the *Woman* on her *Back* with her *Head* low, and the *lower Part* of her *Body* raised, I would press back the *INFANT's Head*, and put the *STRING* as much as possible behind it; upon which, then I would bring the *Head* forthwith into the *PELVIS*, unless it be more convenient to *turn* and *extract* it by the *FEET*.

A S also, tho' seldom, it may happen, that the *Umbilical* may be *pressed back* by the *HEAD* against the *Os SACRUM*: In which State of Affairs, I would turn the *Woman*, if Strength may permit, upon her *KNEES*, whilst

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whilst I employ either *Hand* on the *Back Part*, in order to remove the *HEAD*, how firmly soever fixed: Whereas if the *Patient* be weak, I would lay her upon either *Side*, drawing up one *Foot* to her *Belly*, for the Advantage of obtaining more Room, in order to effect the same Thing; which, tho' difficult, is no impossible Task for the expert *MIDWIFE*.

BUT if it chances to be pressed against either of the *Ossa ILIA*, having laid the *Woman* on the contrary *Side*, with the lower Part of her Body elevated, I would remove the *HEAD* with the opposite *Hand*, and free the *STRING*; proceeding otherways as in the former Cases, with *HEAD* or *FEET*, as I should find most convenient.

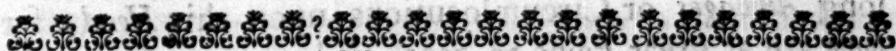
IV. AGAIN, it also sometimes comes to pass, that the *STRING* is found lying upon the *Forehead*, which is indeed most dangerous; but it is easily remov'd with good Judgement to the *Temples* of the *HEAD*, which I take to be a safe Position, because there the Pressure is much less aggravated.

V. MOREOVER it likewise sometimes happens, that the *STRING* comes along with the *Shoulder*, *Elbow*, *Hand*, *Foot*, &c. without touching the *HEAD*: Upon this then as soon as the *Humours* have flow'd, I would pass my *Hand* quickly up, and bring the *CHILD*, *Head* or *Feet* foremost into the *Passage*, according to its Situation, always detaining or stopping the *STRING* from coming out before the *BIRTH*: Whereas if the *STRING* be already excluded along with the *Foot* or the *Arm*, it is to be repelled with all necessary Speed, Conduct, and Caution, and then the *INFANT* ought to be dextrously drawn out by the *Feet*.

VI. I have also seen the *CHILD* brought forth by the *HEAD*, with the *Umbilical* circumvolv'd, or turn'd twice or thrice round the *NECK*; by which means of the *STRING*'s being so much shortned, the *BIRTH* was stopped or retained in the *Passage*: Upon this Occasion, I endeavour'd to slacken the *STRING*, and so bring it over the *HEAD*; but finding it too strait
and

Ch. 25. the After-Birth's coming first. 303

and *short* to be so ordered, I tied it in two places (at about two or three *Inches* distance) and then cut it in two betwixt the *Ligatures*: That being done, it was my Business to lose no Time in attracting the *INFANT* and delivering the *WOMAN*; otherways in this *Condition*, it would have soon expired.



C H A P. XXV.

Of Preternatural BIRTHS, from the AFTER-BIRTH's coming first into the PASSAGE.

ANOTHER *Preternatural Accident* to which the *BIRTH* is also sometimes liable, is the *Falling down of the PLACENTA* into the *Orifice* of the *WOMB*; which of course must needs obstruct the *Passage*, and prevent the timely *Egress* of the *INFANT*.

NOW tho' the ignorant *MIDWIFE* often occasions this untoward *Accident* by her own unskilful and imprudent *Treatment*, or rough and indecent *Usage*; yet the Ingenious *MIDWIFE* discovers this *Case* in time by two certain different *Ways*: Namely, *FIRST*, by the *Touch*, when she can neither feel the *MEMBRANE*, nor the naked *HEAD*; but (on the contrary) perceives a thick, soft, fleshy, boneless *Substance*: *SECONDLY*, by a *Bloody Flooding*, which constantly attends this *Condition*; where by both the *MOTHER* and the *CHILD* are imminently endangered, as is already more abundantly set forth*: Unless the skilful *MIDWIFE* can prevent the fatal *Consequence*, by accelerating the *BIRTH*; which, however yet, is not to be rashly attempted without due *Circumspection*.

* Vid. SECT. III. Chap. 19. & SECT. V. Chap. 5.

BUT

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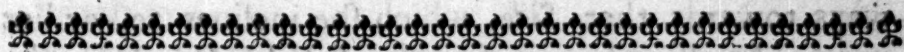
BUT notwithstanding the daring *Difficulties*, and time-serving *Precautions*, mentioned by most *Authors* of my reading and revolving, in this *Case*; I can conceive no extraordinary *Perplexity* which can attend it, if the *DELIVERY* be but *timely* or *seasonably* undertaken, before the *Woman's Strength* and *Blood* be too much exhausted. I know *Daventer*, *Peu*, and some *others*, make long *Ambages* or *Circumlocutions* upon this *Head*; for some are at great *Pains* to teach us how to perforate the *SECUNDINE* with a *Hair-Needle* instead of our *Fingers*, and *others* how to keep it back, until the *INFANT* be first born: But for my part, as I already foresee sundry *Difficulties* that will arise in these *Practices*, so I shall be loth to come into them, and that because—

FIRST, in penetrating the *PLACENTA* with any *acute Instrument*, the *CHILD* (if not the *MOTHER* also) may be easily wounded: SECONDLY, supposing it to be done with the *FINGERS*, the *Hole* must be dilated in proportion to the *Aperture* of the *Mouth* of the *WOMB*, and then this mangled *MASS* must be dispersed to *all Sides* of the *Orifice*; by which *Means*, *Daventer* himself acknowledges, that it often perfectly *congeals* with *BLOOD*, and sticks so fast to the *WOMB* or *VAGINA*, that the *Ignorant* would not only take them to be *grown together*, but also believe them rather to be *one and the same Body*: Which consequently must require both *great Pains* and *Difficulty* to be separated, and at last a very diligent *Scrutiny* must be made, that no *Fragment* be left any where *Behind*, since in this *Condition* no just *Conjecture* can be made by the *Eye*: THIRDLY, by retaining the *SECUNDINE* in the *WOMB*, when its heaviest and most bulky *Part* (the *PLACENTA*) is fallen down into the *Entrance*, let it be never so judiciously managed and moved, it possesses a considerable deal of *Room*, and consequently obstructs the *Operation* of the *MIDWIFE's Hand*, lying as a cross thwarting *Impediment* in her way, which at the same *Time* *blockades* or totally shuts up the *Passage* of the *CHILD*.

WHERE-

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WHEREFORE, and considering that this *Body*, when so loosened and separated from the *WOMB*, can never possibly be any more *serviceable*; but, on the contrary, highly *detrimental* to both the *MOTHER* and the *INFANT*, as aforesaid; I cannot but be of Opinion, that it is both the safest and shortest Way, to extract the *SECUNDINE* first; by which expeditious *Step*, the *MIDWIFE* not only gains more *Room* to turn the *CHILD*, but also (this being done) she can much more commodiously draw it out by the *HEELS*: Animadverting always by the way, that in this critical *Condition*, the *BIRTH* must immediately follow the *SECUNDINE*, without the Loss of one Moment's Time, and that especially for stopping the *Floodings*, which would otherwise not only soon suffocate the weak *INFANT*, but also in a short Space of Time effect the certain *Death* of the tender *MOTHER*.



C H A P. XXVI.

Of Preternatural BIRTHS, proceeding from the Death of the INFANT.

AMONG the many *Preternatural BIRTHS* mentioned, I think that of a *Dead CHILD*, may now at last justly take place.

BUT because this *Case* is too commonly mistaken, and that the *Live INFANT* is too often taken for *Dead*, and consequently the wretched innocent *Creature* treated accordingly; I think it may not be amiss, before I enter upon this *DELIVERY*, that I make a few previous requisite *Remarks*; by which the extraordinary *MIDWIFE*, who is commonly sent for too late, may perfectly know whether the *BIRTH* be *dead* or *alive*; to the End that, so also in *Case* of *Necessity*, it may be accordingly managed: Since in this fatal *Condi-*

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tion I have known *several Persons* to have been grossly deceiv'd, who have depended upon the *Relation* of the sick WOMAN, or taken it upon the *Credit* of the ignorant attending MIDWIFE.

FIRST then I know it to be ALIVE, if, by laying my *Hand* on the MOTHER's *Belly*, I find it *stir* or *move*: Or, SECONDLY, If I have not full *Satisfaction* this way, I would convey my *Hand* into the WOMB, as soon as the *Waters* break, to feel the *Pulsation* of the Navel-STRING; which the nearer I feel to the CHILD's *Belly*, the stronger I find it *beat*, if ALIVE: Or, THIRDLY, I would put my *Finger* into the INFANT's *Mouth* to feel its *Tongue*, which (if ALIVE) I should perceive it to *stir*, as if it would *suck*.

WHEREAS, on the contrary, we may know it to be DEAD, when a certain nauseous and cadaverous *Humour* flows from the WOMB: Or, when the *Woman* feels a great ponderous *Weight* in her BELLY, tumbling always towards that *Side*, which she inclines to, or lies upon: As also when we find the CHILD cold in the WOMB; or the *Umbilical Vessel* without PULSE; or the TONGUE *immoveable*: Or lastly, when I perceive the *Dissolution of the Cuticle* on the Top of the HEAD, I am then positive that the FOETUS is DEAD; because, as this is not easily dissolved, neither does it happen immediately, but some Space of time after DEATH.

IN this Case then of a dead CHILD, the Labour is commonly lingering and dangerous, because of the few, faint, and slow PAINS which seize the *Woman*; so that *Nature*, being half overthrown by the Death of the INFANT, which now can no-ways help itself, absolutely requires to be assisted by the most expeditious ART: And that best, in my humble Opinion, by the Means and Method following, viz.—

FIRST I would endeavour to awaken and promote the PAINS, by one or more sharp and strong Clysters: But SECONDLY, if these do not succeed so expeditiously as necessary, I would introduce my *Hand* into the WOMB, sliding it all along under the BELLY towards the

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the FEET ; and so, with *Face* and *Breast* downwards, I would gently extract it by them ; in the same manner, as if it was ALIVE. Only, in this Case, great Care must be taken, that the HEAD may not unhappily sever itself from the Body, and consequently stay behind in the WOMB ; which Accident may easily happen in the Passage, especially if the BIRTH is any ways putrefy'd.

HOWEVER, after all, in Case of such an untoward Occurrence, I would still excuse myself from the Use of an EDUCTOR, and debar myself from the Practice of any Instrument whatsoever, save only that of my own natural HAND ; which, I think, in all Conditions of BIRTHS, whether Natural or Preternatural, Dead or Alive, is solely obliged, and only best serves, according to the Rules of my Profession, to discharge the Duty of all the INSTRUMENTS in the Surgeon's Shop ; excepting only in the Case of a MONSTER or a very Hydropical CHILD.

BUT in the present Circumstance of the HEAD's being separated from the Body, as soon as I have extracted the CAR CASE, as above ; I would instantly convey back my Hand into the WOMB, and put one or two of its Fingers into the Mouth of the HEAD, placing my Thumb under the Chin : For by thus taking Hold of it by the Jaw, I would extract it gently, and that with the greatest Ease and Safety to the PATIENT Woman.

NOW having thus, in fine, both particularly and at large, treated of the several Sorts of Natural, Difficult, and Preternatural BIRTHS : And having also for the common Good of Mankind, without any Affectation, Hesitation, or Reservation, candidly laid down, and ingenuously set forth the most certain, brief, plain, easy, and unprejudiced INSTRUCTIONS, which perhaps have ever yet been committed to PRINT, upon the excellent Subject of MIDWIFERY : And having likewise, in a Word lastly, for the true Direction and good Government of all MIDWIVES, fairly laid (as it were) and

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faithfully delivered the *big-belly'd Woman*, in every relative Case or Condition of *BIRTH*, which may or can happen to her: It now only remains, I would modestly think, that I should (in the next place) come to take all the necessary Care, and make the most requisite *Provision* possible for the perfect *Recovery* of my *CHILD-BED-WOMAN*; and *that* in the ensuing *Method*.



S E C T.



S E C T. VI.



C H A P. I.

*Of the DIET and REGIMEN of the
Puerperial or Child-Bed-Woman.*

THE *Good Woman* being now delivered, and laid in *CHILD-BED*, may rightly be compared to a *SHIP*, which, after a dangerous nine or ten Months *Voyage*, rides at *Anchor* in her *PORT*; where, tho' arriv'd with great Security, yet if not well moor'd against sudden *Winds* and *Storms*, she may perhaps at last drive from her *Anchors* and suffer *SHIPWRECK*: So in like manner if both the *MOTHER* and the *CHILD* be not duly taken *Care* of after the *BIRTH*, Both may be still expos'd to the Danger of *DEATH*. Wherefore, to prevent all such melancholy *Accidents*, I shall first point out the proper *REGIMEN* of the *One*, and then successively direct *THAT* of the *Other*, in the following *Manner*; viz. —

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I. THEN, immediately after the *BIRTH*, a soft gentle *Closure* may be apply'd to the *WOMB* for repelling of the *cold Air*; of which we must be now very cautious, if we will *avert* the fatal *Consequences* that may thereby happen: As also a small *Plaster* of *GALBANUM* with a little *Civet* in its Center, may be applied to the *NAVEL* for attracting, or rather retaining the *WOMB* in its proper Place, where the *MIDWIFE's* careful *Hand* has fixed it after the *DELIVERY*.

II. THE *Patient* having her *Body* wrapp'd about with a *warm Cloth*, and her *Hips* girt round with the same, is to be placed conveniently in a *warm BED*; that is, directly upon her *Back-Bone*, with her *Head* and *Body* a little elevated, for her *breathing* and *cleansing* the Better; as her *Thighs* and *Legs* also are to be stretched down close together: Whereupon now, if not before, she ought to have a little good *Chicken* or *Pullet-Broth* for her Refreshment; which being done, all *Doors* and *Windows* are to be shut, and the *Bed-Curtains* drawn close, that she may rest and sleep quietly.

III. IN the next place, the *Closures* are to be remov'd, and the *clotted BLOOD* taken away; which being diligently done, the *BELLY*, *LOINS*, and *PRIVITIES* are to be anointed with the Oil of *sweet Almonds*, or *white Lillies*, mixed with a little warm *Wine*, which may be repeated at pleasure, for allaying the *PAINS* of these *Parts*: And as the *Woman* is to be carefully kept always very warm, as well as disposed to *Rest* and *Sleep*; so every now and then, she is to be comforted with some small Matter of any convenient Food; abstaining however chiefly from *strong Meats*, as well as from all *hot* or *strong Liquors*.

IV. A *DECOCTION* of *Barley*, *Linseed*, and *Chervil*, or *Mash-Mallows* and *Violet-Leaves*, with a little *Honey* of *Roses*, may be afterwards used *Milk-warm* three or four times a Day, by way of *Fomentation* for the first five or six Days of *CHILD-BED*: Or, instead of these Things, fresh warm *Milk*, or *Barley-Water* only may be properly used;

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used; always remembring that the *Parts* be duly cleansed from the *clotted BLOOD*, &c.

V. IN the mean time, the *Woman's BREASTS* are all along to be kept very close and warm-cover'd with soft *Cloaths*, that the *MILK* may not *curdle*; which however is no ways yet in the beginning fit for the *CHILD's Nourishment*, until the *Conflux* of the *MILK* and the *Humours* is over; which, upon the first days after *DELIVERY*, run in abundance to the *BREASTS*.

VI. SPECIAL Care also must be taken, when the *Woman* is resolv'd not to *Nurse* the *CHILD* herself, that the *LOCHIA* or *Child-Bed-Evacuations* flow-off plentifully, in order that thereby the *Shock* of the *BLOOD* may be averted from the *BREASTS*; which if not sufficient to prevent that *Inconveniency*, they may be properly anointed with the Oil of *ROSES* and a little *Vinegar* beat-up together; or a *CATAPLASM* of the Meal of *Beans* and *Vetches* mixed with *Oxymel* may be applied to the *BREASTS*; or they may be fomented with a *Decoction* of the Leaves of *Mint*, *Dill*, or *Parsley*.

VII. IN the time of *Cleansing*, all Noise and Clamour about the *Woman* ought to be suppressed; and as she herself ought not to talk much, or aloud, neither ought any Person about her to be *obstreperous*: Because her *Repose* is not only thereby disturb'd, but also her *Spirits* exagitated; which violent Commotion of *Humours* may readily stop the *natural Course*. And as for the same Reason, all *Passions* of the Mind are to be suppressed; so the *Woman* is to keep herself as much as she conveniently can upon her *Back*, carefully avoiding frequent *TURNINGS* to either Side.

VIII. AFTER ten or twelve Days, proper Measures may be taken to fortify and strengthen the *Members*; and after she has fully done cleansing (which may be about the 20th Day, sooner or later after *DELIVERY*, according to the *PATIENT's Constitution*, or her way of *Living*) some proper *Astringent Medicines* may

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be discreetly made use of, for corroborating and re-consolidating the *Parts*.

IX. AS to her *DIET*, during this Time, she ought to be very regular, and live *abstemiously* (especially the *first Days*) as if she had a *FEVER*, using only good *Broths*, *Jellies*, fresh-laid *Eggs*, *Ale-soup* made with fresh *Butter*, or the like; after which, she may begin by degrees to eat a little *Chicken*, *Pullet*, *Capon*, *Veal*, *Mutton*, or any thing else of good *Nutrition* and easy *Concoction*.

AS to her *DRINK*, if she has no *Fever*, she may use besides her *Cawdles*, small *White-Wine* and *Water* for Variety's sake; but in case of a *Fever*, *Water* boil'd with a little *Cinnamon*, or *Coriander-Seed*; or a *Ptisan* of *Liquorish*, *Figs*, and *Aniseeds* boil'd in *Water*; or small *Ale* a little butter'd, as the *Woman* pleases, are far more convenient; observing always carefully that her *DRINK*, of whatsoever sort, be at all times a little warmed.

X. FINALLY, as the *Child-Bed-Woman's* Body is always to be kept open, if not otherways naturally so, by a proper gentle *CLYSTER*, repeated as often as *Necessity* requires, until the *Course* of the *LOCHIA* is quite over; so afterwards she ought to take one or more proper gentle *PURGES*, for cleansing the *Stomach* and the *Bowels* of such vitious *Humours*, as *Nature* could not otherways evacuate: Upon which, a repeated Strengthening *BATH* may be most pertinently used, as also, in order that she may again the more successfully begin upon a new *Score*, other proper Measures may be prudently taken.

THUS we suppose that all things have succeeded well with our *Puerperial Woman*; in which Condition the above-mention'd is her only requisite *REGIMEN*: But in Case of any *Preternatural Accident*, we must come to her *Assistance*, according as the *Nature* of *Circumstances* does require: Of all which in their Order, as they most commonly happen to the *Woman* in her present Condition; and FIRST—

C H A P.



C H A P. II.

Of the AFTER-PAINS.

THESE PAINS, which usually accompany or follow after the *BIRTH*, are common to all *Child-Bed-Women*; and in that *Natural Sense*, as they proceed only from the quantity of *BLOOD* abounding in the relaxed *WOMB*, distending its *MEMBRANES*, or arise from its *Acrimony*; so they gradually cease, and in two or three days quite vanish: Wherefore I am not to insist upon *Those*, which only affect the debilitated *WOMB*.

BUT it often and too commonly also happens, that another Sort, justly call'd *Preternatural AFTER-PAINS*, afflict the *Woman*; which she sometimes feels about her *Loins* and her *Groins*, sometimes about the *Navel*, sometimes all over the *Belly*, and sometimes in the *WOMB* only, and that sometimes with a little, and sometimes without any *Intermission*.

THE most common *Cause* of which *PAINS* is generally one of the *Five* following; *Viz.* 1. The *External AIR*, especially the more *frigid*, which easily penetrates into the *WOMB*, if not carefully prevented: 2. *Clotted BLOOD*, or some other *foreign Body* left behind in the *WOMB*: 3. Some *Acid*, and *Mordacious BLOOD* adhering to the *WOMB*, which excites and stimulates *Excretion*: 4. The *SERUM* vellicating or twitching the *excoriated* part of the *WOMB*: Or, 5. *WINDS* elevated from the *Humours* fermenting in its *Substance*; which, together with those turgent *Humours*, tear its tender *TUNICKS*.

NOW because these *PAINS* often excruciate the *Woman*, as much as the *real LABOUR PAINS* do, and since they are not always without *Danger*, *Necessity* demands

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demands that they should be either *cured*, or at least *mitigated*: Which may be most properly done, by convenient relaxing and attenuating *Medicines* outwardly applied, as well as inwardly taken, when the *Case* does not require the *Hand-Cure*, or manual Operation.

HOWEVER, yet more particularly, in respect of the PAINS, from what *Cause* soever they may proceed, *CLYSTERS* of *Milk* with the *Yolks of Eggs* are proper; as are also emollient *Fomentations* mix'd with attenuating and *Uterine Medicines*; a *Fumigation of BRANDY*; a *Decoction* of the *Recrements* of the *Regulus of Antimony*; such things being of a *sulphurous Nature*: And moreover, in fine, all *AFTER-PAINS* are eased by *Aromatick* and *Carminative Remedies*; such as *Seeds of Anise, Carway, Cummin, Fennel, Penny-Royal, Roman-Camomil, &c.* infus'd or boil'd in *Wine* or *Water*, adding thereto a very little *Mace* and *Saffron*.



C H A P. III.

Of the Suppression of the LOCHIA, or Child-Bed-Purgations.

THE *LOCHIA* are nothing else, but the ignobler part of the *Blood* and congested *Humours*, which after the *BIRTH Nature* evacuates and discharges out of the *Uterine Vessels*, in consequence of the *Divulsion* and *Separation* of the *PLACENTA* from the *WOMB*. Which *LOCHIA* however differ always according to the *Constitution* and *Disposition* of the *Woman*, and that not only in *Quantity*, but also in *Quality*: For if the *PATIENT* be otherways *Healthy*, and *Well-disposed*, these are at first of a *florid rosy Colour*, degenerating day by day into a *Pale-dye*; Whereas if otherways,

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ways, they are sometimes *Aqueous*, and sometimes *Bilious*, *Melancholick*, &c. And, according also to the usual *Habit* of Body, and *Way of Living*, some Women flood more plentifully, others more sparingly; some a longer, and others a shorter Time: as for Instance——

A Woman given to *Ease*, and *high-Living*, being delivered of a MALE, may cleanse from twenty to thirty Days; and if of a FEMALE, from thirty to forty-two Days at most, however still declining in *Quantity* from Day to Day: Whereas another given to *Exercise*, may flood only from eight to fifteen Days; and that also perhaps more sparingly, or by *Intervals* of one or two Days. But it oftentimes happens, that this *Evacuation* is either suppressed in Whole, or in Part; of which *Suppression* or *Preternatural Retention*, I am now about to speak.—

FIRST then, the Cause of this EVIL, proceeds either from an *Obstruction* of the *Uterine Vessels*, occasion'd by thick BLOOD stopping the *Passages*: Or, SECONDLY, from a *Constriction* or *Compression* of the same *Vessels*, occasioned by an *oblique Situation* of the WOMB, or by cold *Air*, cold *Drink*, or the like; which readily constrict their *Orifices*, as well as contract the WOMB itself: Or, THIRDLY and lastly, the Cause may proceed from the BLOOD's being retracted and converted to some other Part of the Body; which is most commonly occasion'd by some *Passion* or *Perturbation* of Mind, that may not only turn the *Shock* of the BLOOD to the BREASTS, but also retard the *Motion*, and thicken the MASS of the same BLOOD.

THE DIAGNOSTICKS however of this Distemper are manifest; for either no BLOOD is voided at all, or too small a Quantity, in respect to the *Size*, *Temperament*, and *Constitution* of the PATIENT: But besides, it may be also known by the following Symptoms; viz. a SWELLING of the BELLY, upon the Retention of the *Humours* that ought to be evacuated; a Difficulty of Breathing arises; PAINS seize the Abdomen, as also the Loins and the Groins; a Fever and Tremblings

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blings follow; as *Faintings* do upon a weak, quick and unequal *Pulse*; something *fuliginous* appears in the *Urine*; and a livid, black, grumous, or nauseous *Matter* is excreted.

HENCE proceed various *PROGNOSTICKS*; viz. *Fevers*, *Spitting* or *Vomiting* of *BLOOD*, *Melancholy*, *Inflammations* of the *Liver*, *Quincy*, *Plurisy*, *Frenzy*, *Dropfy*, *Apoplexy*, and *Madness* itself: The least of which may prove of fatal *Consequence*, wherefore *Delays* in this *Condition* are most dangerous; because when any of these heavy *SYMPTOMS* has befallen the *Woman*, there is scarce any *Hope* left for her *Recovery*; whereas before, they may be artfully prevented, and the *Cure* duly perfected by convenient *DIET*, *Venasections*, *Revulsive Medicines*, &c.

BUT more particularly the *Cure* ought to vary, according to the *difference* of the co-incident *SYMPTOMS*: For since continual *Fevers* and *Inflammatory Diseases* most commonly follow upon this *Suppression* or *Diminution* of the *LOCHIA*, we must take great *Care* that, endeavouring to promote the *FLUX*, and to open the *Uterine Vessels*, we do not augment the *FEVER* and *Inflammation*; which will certainly happen, (if without distinction) we use the *hot Medicines* prescribed by many *AUTHORS*.

WHEREFORE in this *Case* repeated *Venasections* sometimes in the *Ankle*, and sometimes in the *Arm*; and *cupping Glasses* applied to the *Thighs* and *Shins*; as also *Rubbing* of the *Legs* and *Thighs* well, are generally sufficient *Remedies*; especially if followed with one or more *Cleansing*, or partly opening, partly cooling, and *Emollient CLYSTERS*, of a *Decoction* of *Mallows*, *Pellitory*, or the like; in which strain'd *Liquor*, the *Pulp* of *CASSIA* with a *Dram* of *Nitre*, and *Sugar*, and *Honey* may be dissolved: As also *Fomentations* and *Fumigations* of *Emollient* and *Aperient Medicines* that are not sharp, may be very pertinently used. Finally, the *Infusion* of *JESUITS-BARK* in *Water*, may

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may be properly given three or four Times a day ; and purging *PTISANS*, after the *first days*, are of good *Service* in the present *Case*.



C H A P. IV.

Of the immoderate Flux of the LOCHIA.

TH E too copious and long lasting, or immoderate *FLUX* of the *Child-Bed Purgations*, is no less *Preternatural*, than the former *Case* of their being altogether *suppressed*, or in part *diminished*. Tho' it is however to be observ'd, that there can be no certain *Quantity* of flowing *BLOOD*, nor any certain *Time* of *Duration* of this *FLUX* prefix'd or determined to the *Puerperial Woman*, as aforesaid : Wherefore the *Excess* of this *Evacuation* is best known by the *Loss* of *Strength*, *sinking* of the *SPIRITS*, and the great *Uneasiness* of the *PATIENT*.

TH E *Cause* of this *Distemper* is, either 1st, a too great *Plenty* of the abounding *BLOOD* ; or 2^{dly}, its *Tenuity* and *Acrimony* stimulating *Nature* to *Excretion* ; or 3^{dly}, too great an *Apertion* of the *Uterine Vessels* ; or 4^{thly} and lastly, a violent *Extraction* of the *AFTER-BIRTH* : For the *Flux* of the *LOCHIA* proceeding meerly from the *Separation* of the *PLACENTA* from the *WOMB*, the more strong and violent this *Separation* or *Divulsion* is, the more the *Vessels* in the *Concave-Part* of the *WOMB* are torn or dilacerated ; and so being either too much *opened*, or too difficult to *reconsolidate*, they discharge *BLOOD* immoderately.

HE N C E, I say, this immoderate *FLOODING*, is not only known by the great *Quantities* of *BLOOD* voided, by its *Continuance*, or by coming away in *Clods*, and much at a time ; but also by the *Loss* of *Strength*,
and

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and a *Defect* of *SPIRITS*; upon which follows a low, debilitated and frequent *PULSE*; *Loathing* of *VIC-TUALS*; *PAINS* in the *Hypochondriacks*, with a *Twisting* of the *GUTS*, and *Gripping* of the *BELLY*; a *Dimness* of *SIGHT*; a *Hissing* of the *EARS*; and at last *Swoonings* or *Convulsions*, proceeding from the *Depauperation* of the *BLOOD*: Which after an immoderate *FLUX* always disorders the *SPIRITS*, because when the *Mass* of it is much lessened, it cannot keep its due *Mixture* and *Disposition*.

IN this *Case* the true *PROGNOSTICK* is, that, if all immoderate *Hæmorrhagies* are dangerous; because by them, the *Treasure* of *LIFE* (the *natural Heat*) is exhausted: *Then*, without *Controversy*, the immoderate *Flux* of the *LOCHIA*, whether after *LABOUR*, or after a *MISCARRIAGE*, is full of *Danger*; as coming upon the *PATIENT* at a most unseasonable time, when her *Strength* is already spent.

THE *Cure* of this *Distemper* ought to be well-weigh'd, and very cautiously perform'd, because the definite *Quantity* of *BLOOD* to be evacuated cannot be well or certainly known: And because if any *Part* of *That* be stopped, which ought to be ejected, it of course flows to some *other Part*, and excites *Inflammations* or other heavy *SYMPTOMS*. Wherefore this is only, in the *Beginning*, to be corrected by proper *DIET*, and some other convenient light *Means*: But afterwards by repeated *Vena-Sections* in the *ARMS*, if *Strength* will permit; and proper *Astringents* inwardly taken, as well as outwardly applied; continuing always a *Thickning*, *Cooling*, and *Astringent DIET*: But farther yet, as the *Patient* grows weaker, she ought also to have some *corroborative Remedies*, to enable her to stand out the *Cure*. *Fomentations* for the lower *Belly* of *OXYCRAT*, or an astringent *Decoction*; *Fumigations* of the same *Decoction*, or of hot *OXYCRAT*, are very convenient and helpful on this *Occasion*, as are also *astringent Injections*.

BUT however sometimes, and not seldom, it happens, that this *Case* proceeds from the negligent or ignorant
MID-

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MIDWIFE, by her not duly *cleansing* the WOMB; by which Means, some part (how small soever) of the SECUNDINE or Membrane, or some clotted BLOOD, or perhaps a MOLE, miscall'd a *false Conception*, may be left behind in the WOMB; which distending that Body, occasions not only an immoderate FLUX, but also stirs up violent PAINS, not unlike to *those* of LABOUR: In this pitiful Condition, all possible Diligence must be prudently used to fetch away and remove this Cause, which is only most effectually to be done by the *Hand-Cure*, in the manner already abundantly set forth.

AFTER which, the PATIENT is to be treated as before, laying her *equally flat upon her Back*, and keeping her very still and quiet in BED; which BED may however in this Case be kept a little Cool, as well as her Chamber, lest HEAT should provoke and continue the Course of the FLUX.

MOREOVER, in fine, it also sometimes happens, that immoderate Purgations proceed from some gross Excrements contain'd in the RECTUM antecedent to the Time of LABOUR; which, as they puff up the Belly, so they also commonly occasion severe CHOLICKS; but these being discreetly evacuated by a pretty strong emollient CLYSTER, the FLOODING immediately ceases.



C H A P. V.

Of the Acute Distempers incident to CHILD-BED-WOMEN.

WE are in this place only to consider the Acute Distempers of the Puerperial Woman, because the Time of *lying-in* is not of such a long Continuance as to admit of Chronick Diseases: And these Acute Ones, in short, which they are most commonly subject to, are continual FEVERS, (Either, 1. *Essential*, that is, FEVERS pro-

proceeding first from the BLOOD; or, 2. *Symptomack FEVERS*, that is, such as follow upon the internal *Inflammations*, which often attend the *Child-Bed-Woman*; as also *Frenzies*, *Watchings*, *Lethargies*, *Convulsions*, *Epilepsies*, &c.—

BUT more especially there is one particular kind of FEVER, which invades almost all labouring *Women* the third or fourth Day after the *BIRTH*, and is commonly call'd the *MILK-FEVER*; because about that time, the *MILK* begins to generate more plentifully in the *BREASTS*, taking its *Rise* from the Motion and Agitation of the BLOOD, which converts it from the WOMB to the *BREASTS*. This *Distemper*, resolving itself about the ninth Day by SWEAT, is of no dangerous *Consequence*; provided the *PATIENT* observes a good and proper DIET, and duly prevents all Cold, that might readily stop the SWEAT, and carefully preserves the MILK from coagulating or putrefying in her *BREASTS*, whence the *Symptomack FEVERS* commonly arise: Wherefore, I say, this *MILK-FEVER*, being of the extended *Ephemeric* Sort, and ceasing of itself, requires no great Cure.

ONLY in this Case, it is a vulgar Error among the good *Women*, that because this FEVER lasts only four or five Days at most, coming-on about the fourth, and ending about the ninth Day after the *BIRTH*, they take all Fevers in this time, for the *MILK FEVER*; and consequently thro' this Mistake, neglecting, or not regarding duly the true Condition, the *PATIENT* is very often endanger'd: Which Mistake, that they may for the future diligently avoid, I shall subjoin here some certain SIGNS of Distinction in due Course. But previously——

THE Causes of all FEVERS incident to the *Child-Bed-Woman*, are either the Suppression of the *LOCHIA* in whole or in part; or the vitious Quality of the *Humours* accumulated in *Gestation*, and exasperated in the *BIRTH*; or a vitious irregular DIET in the time of *lying-in*; or the cold AIR, or any such Accident by bad Management, may readily convert the *MILK-FEVER* into a

putrid

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putrid and dangerous one; as a latent *CACOCHYMY* may also easily dispose it to *Corruption*.

THE true *DIAGNOSTICKS*, in my Opinion, are as follow, *viz.* FIRST, the *MILK-FEVER* is known from hence, that it always begins about the *Fourth Day*, when the *BREASTS* begin to fill with *MILK*; and then the *LOCHIA* flowing regularly, the *Woman* finds a certain *Gravity* or *Weight* in her *Back* and *Shoulders*.

BUT, SECONDLY, when the *LOCHIA* are *suppressed*, whether in whole, or in part, 'tis then certain that the present *FEVER* proceeds from thence; the *BELLY* thereby swells and is puffed up, as also it is *pained* when *touched*; and the *Humours*, at last, putrefying in the *WOMB*, it ejects a certain *fætid* or *corrupt Matter*.

WHEREAS, THIRDLY, if the *FEVER* neither proceeds from the *MILK*, nor from any *Irregularity* of the *LOCHIA*, why then it must necessarily either proceed from the *vitious Quality* and *Preparation* of the *Humours*; or from a *Cacochymical Habit* of *Body*; or from an *irregular Way* of *Living* in time of *GESTATION*.

THE most certain *PROGNOSTICKS* are as follow, *viz.* FIRST, All *Acute Diseases* in *Child-bed Women*, whose *Strength* is impaired by their *LABOUR*, are much more dangerous than in any *Others*. SECONDLY, These which proceed from the *Suppression* of the *LOCHIA* are most dangerous; because the *Humours* putrefying in the *WOMB*, occasion most severe *SYMPTOMS*, yea and too commonly *DEATH* itself, unless a lucky *Diarrhæa*, or a timely *Ejection* of the corrupted *Matter*, prevents the *Misfortune*. THIRDLY, The self-same is the unfortunate *Consequence*, when the *Distemper* proceeds from the *vitious HUMOURS*; for *Nature* then not being able to expurgate their abounding *Superfluity* by the *LOCHIA*, the *PATIENT* must needs be greatly endanger'd, if not overwhelm'd.

THE most adviseable *Cure*, FIRST, as to the *MILK-FEVER*, is only to be committed to *Nature*, the *Wo-*

man using always a proper *DIET*, and carefully animadverting, that the *SWEAT*, in which it commonly terminates, be no ways checked, impeded, or obstructed.

SECONDLY, As to the *Watchings*, *Deliria's*, *Epilepsies*, &c. which the *PATIENT* is subject to in this Condition; as they proceed only from *Vapours* of the *BLOOD* and *Humours*, ascending to the *Head*, when the *LOCHIA* do not flow regularly, or when the *Woman* is *Feverish*: So the *Cure* of these distemper'd *Cases* depends (at first) chiefly upon retracting the *HUMOURS* from the *Head* to the inferiour Parts, and correcting the *Course* of the *LOCHIA*: Because, if these flow orderly, and the vitious *Humours*, from which such depraved *Vapours* as affect the *Head*, be removed and evacuated, all such *SYMPTOMS* quickly cease and vanish of their own Accord.

THIRDLY, in the other above-mentioned *Cases*, the *PATIENT* ought always to be treated according to the various *Circumstances* of her *Condition*; I mean, according to the attending *SYMPTOMS*, conformable also to which the ingenious *Physician* will always judiciously take his prudent *Measures*: Since the *Cure* does not always depend upon the *same Method*; especially when a *symptomick*, or concomitant *FEVER*, joins the *first*, as it very often happens, by an *Inflammation* of some *particular Part*, proceeding from something of the vitious *HUMOURS* enforcing itself upon the same very *Part*.

NOW, in short, tho' such *Inflammations* may affect any *Part* of the *Body*, yet (I think) the most common *Case* is, that which affects the *PLEURA*; and from hence (the *Pleurisy* joining the *FEVER*) the *Woman* labours under both these complicated *Acute Diseases* at once. The *Cure* of which difficult and dangerous *Condition* belongs only to the ablest *Physician*, to whom I should be justly censured, in impertinently offering any *Instruction* upon this Subject. Finally, in a word, from what has been said in the *Chapter* of the *Acute*

Ch. 6. *incident to Child-Bed Women.* 323

Acute Diseases of Women with *CHILD* †, we may more fully gather what is to be prudently done to Women in *CHILD-BED*, afflicted with the like *Distempers*.

C H A P. VI.

Of the various other Accidents incident to the CHILD-BED-WOMAN.

FIRST then, Because these *accidental* Distempers are very many and numerous, as well as various and different in *Kind*: SECONDLY, Because *some* of them have been already treated, or occasionally discoursed upon at large: And, THIRDLY, because *others* are only to be named in this Place; I shall take leave to include and comprehend them all, for *Brevity's* sake, in this present Chapter.

IN order to which, I may first observe, that most (if not All) of these unfortunate *Accidents*, depend entirely upon the indiscreet *Conduct* of the *MIDWIFE* in time of *LABOUR*, or the *ill Management* of the *Woman* after the *BIRTH*: Since by the prudent and judicious *Means* of the expert *MIDWIFE*, many *Accidents* may be prevented, which otherways must necessarily happen, especially in difficult or *preternatural BIRTHS*; as also, on the other hand, by treating the *Woman* orderly, and guiding her carefully, many *Distempers* may be totally averted, which otherways will inevitably seize the *PATIENT*. As for Instance——

IT sometimes happens, that she is troubled with a *Prolapse*, or bearing down of the *WOMB*, or *Vagina*, or *Both*; as also sometimes with a *Falling-out* of the *FUNDAMENT*: In all which unhappy *Conditions* the industrious *MIDWIFE* will find her *Instructions*, not only with respect to the *Cure*, but also with respect to the *Prevention* (which concerns her most) particularly for

† Vid. Sect. 3. Chap. 28.

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down and accounted for in *SECT. V. Chap. 10*, and *11*. as she will also, upon *Perusal*, find the *Method* of preventing that deplorable *Accident*, of making a *Rupture* in, or renting the *Perinaum*, in *Chap. 9*.

BUT in case of *Contusions*, or smaller *Rents* in the *VULVA*, or *Vagina*, which sometimes cannot be well prevented, especially in the *First BIRTHS*; such are by no means to be neglected, lest they degenerate into malignant *ULCERS*: Wherefore they ought to be cured, as soon as possible, after the *Woman's DELIVERY*; which *Cure* is easily performed, when taken in hand betimes, by proper *Fomentations*, and convenient *CATAPLASMS*.

SOMETIMES again, the *WOMB*, the *Belly*, and the *Feet* swell much after the *BIRTH*; which *SYMPTOMS* commonly proceed from some *Cold*, or from drinking too much, or from either a *Suppression* or *Diminution* of the *LOCHIA*, or from any *irregular way of Living* during the time of *GESTATION*: By which means the vitious *HUMOURS*, resolving themselves into *Flatulencies*, swell and puff up both the *WOMB* and the *ABDOMEN*; and these *Winds* descending, have the same Effect upon the *Legs*. But the *Cure*, however, of all such *SYMPTOMS*, is readily accomplished by convenient *DIET*, proper *Fomentations*, and discutient *Medicines*.

HENCE I might orderly descend to an *Indefinity* of Particulars, deriving from the following general *Heads*, which I shall only name at this time; viz. the various *Diseases* of the *PUDENDUM* and *Vagina*, as well as of the *MATRIX* itself, together with their *co-incident SYMPTOMS*; as also the divers *Distempers*, and different *SYMPTOMS* of the *Woman's BREASTS*. But *These Subjects* being as different as numerous (which I have already hinted) I must refer them to another Opportunity; being resolved to keep the present Work, for the common Good, within the *Purchase* of all sorts of People as far as possible; and until such time as something on *these Heads* appears more judicious or elaborate,
either

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either from *my own*, or some more *capable Hand*, I hope *English Women* can be at no great Loss for good *Instruction*, or ready *Assistance*; especially not in this famous *City of LONDON*, which is, by the *Divine Mercy*, abundantly well-stock'd, and singularly well provided, with some of the most excellent *Physicians* of the *Age*, as well as with some very ingenious *Practisers* in the *Art of MIDWIFERY*.

A N D, thus, in fine, having *piloted* the good *Woman* (as it were) thro' the *three Gulphs* of *GESTATION*, *BIRTH*, and *CHILD-BED*, and at last brought her into safe *Harbour*; we may now (I hope) securely leave her there, to *refit* for the same prosperous *Voyage* again; whilst we, in the next *Place*, undertake to provide for the *Safety* of her *CARGO*, or direct the *Regimen* and *Nursing* of the *CHILD*. And *FIRST*—

C H A P. VII.

Of the Constriction of the NAVEL-STRING, and the Swaddling of the Infant.

I F after the *Torrents* of *Difficulties* and *Oceans* of *Danger* that the *MOTHER* has painfully gone through, and narrowly evaded, the *CHILD* should at last be lost; the *Comfort* of her *Burden* would be but small, and the *Reward* of her *Sufferings* but very little: Wherefore special *Care* ought to be taken to prevent such melancholy *Events*; in order to which, we are not only to remedy such *Indispositions* as it (too often) brings with it into the *World*, but also to defend it from the many periculious *Contingencies*, to which the *Tenderness* of its *Body*, and the *Debility* of its *Age* expose it.

T H E first *Duty* then, that the *INFANT* requires of us after *BIRTH*, whether born by the *Head*, or extracted by the *Feet*, is the *tying* and *cutting* of the *Umbi-*

lical Vein, or *NAVEL-STRING*; which being a thing generally well known, I shall have no Occasion to insilt upon it, especially since tho' the common Gossips may differ in the *Performance*, yet they always agree in the *Fact*.

HOWEVER, that we may not pass this *essential Point* by in Silence, in case a notable Word may drop by the By, I would,——

I. OBSERVE, that, until the *STRING* be cut, the *CHILD* is to be carefully laid on *one Side*, not on its *Back*, for fear that the *HUMOURS*, running to its *Mouth* or *Nose*, may choke it, for want of free *Evacuation*.

II. I would take notice, that, if need require, while the *MIDWIFE* is busy about the *Mother*, in extracting the *AFTER-BIRTH*, cleansing the *WOMB*, &c. the most capable of the Gossips should *tie* and *cut* the *STRING*, especially if the *INFANT* is weak or ill; otherways it may be deferred until the *Woman* be entirely *delivered*, and fairly *laid*. Then,——

III. AS to the *Performance* of this Matter, it may be *tied* with a good strong *Thread*, laid four or five-fold, according to its Strength; and the *KNOT* tied close within *two Inches* of the *CHILD's* Body: Tho', I say, that the *KNOT* is to be *tied* close, yet it must not be so strictly *tied* as to cut asunder the *STRING*; which might easily happen, especially to the *INFANTS* of a tenderer Constitution. And the Reason that I would have the *Constriction* made *two Inches* from the Body, is this, That in case any *Blood* should happen to drop out afterwards (as it often happens) there may be room enough to *tie* it again nearer the *NAVEL*.

IV. THE *STRING* is not to be *cut off* close to the *KNOT*, but also *two or three Inches* from it; so that, if it happens to swell with Wind (as is very common) after being *tied*, it may be *loosed* again, the *Wind* discharged, and it-self conveniently *retied*. But the far better and preferable way is, to tie this *VEIN* in *two Places*, and cut it asunder betwixt the *Ligatures*; being thereby

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thereby secure from losing BLOOD. Some (I know) will not have the V E I N to be *tied* before the C H I L D cries or makes *Water*; but, however, long *Delays* in this *Case* are no ways convenient, nor without Danger.

V. T H I S V E I N or S T R I N G being cut, must be wrapped up in a *three or fourfold Rag*, to defend the B A B E from Cold or Pains of the *Belly*; which otherways might ensue from the *naked V E I N*'s lying upon its Body: Which being done, this Part of the S T R I N G is to be laid on the *upper Part of the Belly*, with a small *Boulster* on the Top of it; and then swathed with a *Linnen Swath* of about *four Inches broad*, to keep it firm and steady.

VI. T H E first time that the C H I L D is *unswathed*, a new K N O T ought to be made or *tied*, and that to prevent all *Danger* by Loss of BLOOD, which may readily happen by the first K N O T's relaxing, as the S T R I N G begins to wither away or contract.

T H I S being so duly taken care of, it remains only in general, that the Infant be presently *washed*, cleansed, and examined all over, and at last orderly *swaddled*. All which if the M I D W I F E does not perform with her own Hands, she ought at least to see it carefully accomplished: Upon which she may then say, she has faithfully discharged her *Duty* to both the M O T H E R and the C H I L D.

VII. B U T more particularly, in the *seventh Place*, I must take notice, that as soon as the N A V E L-S T R I N G is thus duly handled and provided for, the I N F A N T is to be tenderly cleansed of the adhering *Excrements*, and washed all over in a little warm *Wine*, *Milk*, or *Ale*; especially its *Head*, *Arm-Pits*, *Groins*, *Cods*, or *Privities*, &c. are to be softly cleansed and gently bathed with a soft *Spunge* or *Rag*, dipt in the same *Liquors*: But if the *viscous Matter* sticks too fast or close to the tender Body, a little *Oil of sweet Almonds*, or fresh *Butter*, may be added to either of the foresaid *Liquors*. As also the *Ears* and *Nostrils* ought to be well cleansed and unstopped with small *Tents* of *fine*

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Rags wet therein ; and the *Eyes* wiped with a soft dry Cloth ; as the *Mouth*, *Tongue*, and *Jaws* may be cleans'd by the *Finger*.

VIII. THESE things being all very carefully and tenderly performed, every Part of the Body ought to be diligently searched, in case of a *Dislocation*, or any other *Accident*, happened by *Violence* in the *BIRTH*, or otherways ; that present *Remedies* may be used, according to the Nature of the *Circumstances* : And especially the two *Conduits* of the *URINE* and *ORDURE* are to be examined ; since it sometimes falls out that *these* are not perforated, and consequently that the *Meconium* cannot be voided, which inevitably proves fatal, unless timely *Care* be taken.

IX. AS to the *URINE*, all *Children* discharge it as soon as born, at least as soon as they feel the *Heat* of the *Fire* ; when if the *Excrements*, properly called *MECONIUM*, tho' improperly *COLLOSTRO* by the *Italians*, do not follow a little after ; I mean within an *Hour* or *two* ; then a small *Suppository* may be used, such as a sugar'd *Almond* anointed with a little boiled *Honey* ; or a Piece of *Venice-Soap* anointed with fresh *Butter* ; as also a little *Syrup* of *Roses* or *Violets*, mixed with the *Oil* of sweet *Almonds* by *Expression*, that is, drawn without *Fire*, may be given in the *Mouth*, anointing the *Belly* with the same *Oil*, or with fresh *Butter* ; in like manner as a small *Clyster* (upon occasion) may be discreetly used and managed to purpose.

X. THE *INFANT* being in these respects provided for, it is now to be duly dressed and swaddled in its *Swathing-Cloathes* ; and beginning with the *HEAD*, a *Compress* of a three or fourfold fine *Linnen Rag*, about *four Inches* broad, is to be applied to the *MOULD*, for defending the (yet open) *BRAIN* from *Cold*, &c. which *Compress* is to be carefully covered with, and pinned to the ordinary *CAPS* made on purpose. Next then, some small soft *RAGS* are to be laid behind the *Ears*, upon the *Breast*, in the *Arm-Pits*, and the *Groins* ; after which the *BABE* is to be wrapped softly up in warm *Blankets*,
and

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and discreetly *swathed*; not too strait, especially not about the *Breast* and *Stomach*, that it may *breathe* the freer, and the better retain the *MILK* it sucks. The *ARMS* are to be stretched along the *Sides*, and the *LEGS* equally *streight*, with a little of the *Bed* betwixt them; and the *HEAD* is always to be kept steady, as the whole *CHILD* is to be preserved *thus* warmly wrapped up, and judiciously appointed. But now because the *INFANT* is commonly committed to the *Nurse's* Care, I shall, in the next Place, enter upon the *Description* of the proper *Person* for that purpose.



C H A P. VII.

Of the NURSE and her Regimen, together with the requisite Qualities of her MILK.

TH^{O'} the *BABE* may be brought up by the Hand only, without *Suckling*, as many Instances of very thriving *Children* testify; yet because the most natural, common, and commendable way is to *suckle* it, I come now to touch upon the proper *NURSE*, her *Milk*, and *Diet*. Upon which I first observe, that the prime and chief *Quality* of a good *NURSE* is, that she be the *Mother* of the *Fosterling* *INFANT* herself; and that because her *MILK*, being generated of the same *Blood*, of which the *CHILD* is formed, and has hitherto been nourished, is of a nearer *Affinity* with the Nature of her *BABE*, than the *MILK* of any other *strange Woman* whatsoever; which can differ no less from the *Maternal Milk*, than the own *Mother*, and the other differ in *Constitution* and *Temperament* of Body, *Regimen*, and *Method of Living*, &c. All which affect the *INFANT* in no small Degree; for as the *BLOOD* is generated of the *Chyle*, and the *Spirits* of the *BLOOD*, so the *CHILD* imbibes

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imbibes the very *Manners* and *Disposition*, as well as the gross *Humours* and *Qualities* of the *NURSE* with her *Milk*.

AS a *Lamb* sucking a *Goat*, changes not only its *Nature*, but even its *Skin* and *Wool* into the *GOAT-Kind*; so it is also among the *rational Creatures*: From hence we have justly the *old Proverb*, touching an ill-natured *Person*, that some *Brute* or other has been his *NURSE*. And hence it is that *Romulus* and *Remus*, the Sons of *MARS* (without any *Reality*) are said to have been nursed by a *WOLF**; *Pelias*, the Son of *Neptune*, by a *MARE*; *Telephus*, the Son of *Hercules*, by a *HIND*, &c. Not that they ever actually sucked such *Creatures*, only their *NURSES* were of such *Tempers* and *Natures*, which they were thus supposed to have by the *BREAST* infused into them.

AND, in short, daily *Experience*, as well as many *Learned Authorities*, may sufficiently convince us, that *CHILDREN* really suck in the several *vitious Inclinations* and *depraved Passions* of their *NURSES*; such as *Anger*, *Malice*, *Fear*, *Melancholy*, &c. Agreeable to which Opinion, *Diodorus* says †, that *Nero* the Emperor's *NURSE* was very much addicted to *Drinking*; which Habit *Nero* imbibed from her, to such a *Degree*, that the People took notice of it, and from thence instead of *CLAUDIUS TIBERIUS NERO*, call'd him *Caldius Biberius Mero*. The same Author relates of *Caligula*, that his *NURSE* used frequently to moisten her *Nipples* with *BLOOD*, that he might take the better hold of them; which (says the same *Diodorus*) was the *Cause* of his being so cruel and *Blood-thirsty* all the *Days* of his *Life*; that he not only committed frequent *Murders* by his own *Hand*, but even wished that all humane *Race* was but one *NECK*, that he might have the pleasure to cut it off.

IN short, *honest Parents* perceiving their *Children* to incline variously, one to *Thieving*, another to *Drinking*;

* Plutarch. in Vit. Romuli.

† Vid. lib. 2.

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one to *Stupidity*, another to *Barbarity* ; are amazed at such *Degeneracies* of Mankind, not knowing after whom the *Child* can take those Propensions. But abstracting from this, how many fine *Children* do we daily see thrown into *Fits*, *Rickets*, *Consumptions*, &c. merely by sucking their imprudent *NURSES*, when enraged, or otherways in a *Passion* ? If then the *Case* stands thus, that every *Disorder* of the *NURSE* is a real *Detriment* to the *INFANT*, surely, upon this Account, all *Parents* ought to know *HER* well, to whom they entrust these *Dear Pledges* of their sacred and natural *Desires*.

MORE OVER yet, besides all these Things, the tender *Care*, as well as the *Love* and *Affection* of the *MOTHER* to her own *CHILD*, by far surpasses that of any mercenary *NURSE* whatsoever. Wherefore the *MOTHER*, tho' perhaps not the best *NURSE* in other respects, is always preferable to a *STRANGER* : Which if People of *Probity* and *Honour* would more observe, I sincerely believe that there would not be so many graceless, disobedient, and undutiful *CHILDREN* of our Age. I do not think what I have read of *Scipio Africanus* to be any singular *Instance* ; namely, that He esteemed *Her* more for his *MOTHER*, who nursed him two Years after his *Birth*, than *HER* who brought him forth, and then forsook him in the *World*. Agreeable to which, and most *à propos*, was the Answer of the Philosopher, *Favorinus**, to the *MOTHER* of a certain Noble-woman in *CHILD-BED*, who was dissuading her Daughter to nurse the *CHILD* she had born ; viz. *I entreat thee Woman* (says he) *suffer her to be the whole and entire Mother of her own Son*. And verily, *SHE* only can be properly so called, who carefully nurses as well as brings forth her own *CHILDREN*. Hence it is that the *Earth* is called the *MOTHER* of all Things, not so much because she produces all Things, as because she maintains and nurses what she produces.

* Apud Aul. Gell. lib. 12. cap. 1.

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ALL which, notwithstanding, there is sometimes a *Necessity* (on account of sundry Reasons) to provide another *NURSE* for the *CHILD*; wherefore I come now briefly to describe the most proper *Person* for this *TRUST*, and to set forth the *Qualities* of the most convenient *MILK*, for the wholesome Nourishment of the *INFANT*.

FIRST then, the *NURSE* ought to be a Woman between the 20th and 35th Year of her Age, perfectly graced with the *Blessings* and *Ornaments* of Nature; and a Person of *Probity* and *Reputation* in her Rank, endued with *Love*, *Pity*, and *Tender-heartedness*: As she also ought to be sound and healthy, of a good *Habit* and *Disposition* of Body and Mind, of a sanguine *Complexion*, and rosy *Colour*; of a middle *Stature*, having black or brown *Hair*, a lively *Eye*, sweet *Breath*, sound and white *Teeth*, with an agreeable chearful *Countenance*. In short, she ought also to be a well-mannered, modest, and sober *Person*, having middle-sized, well shaped, not flabby nor hanging down, but solid fleshy *BREASTS*, with elegant, firm, and well perforated *Nipples*.

SECONDLY, As to her *MILK*, it ought neither to be too new, nor too old; but at any time from the *Puerperial Flux*, until the 6th or 8th Month thereafter, it is not to be rejected; especially if it be of a good *Consistence*, neither too thick nor too thin, of a pure white *Colour*, an agreeable pleasant *Smell*, and a perfect sweet *Taste*.

BUT it sometimes however happens, that the *Milk* of a *NURSE*, otherways a very proper *Person*, degenerates from some of the abovesaid *Qualities*: In which *Case* it is no ways convenient to change the *NURSE*, especially if it so happen to the *MOTHER*; only the *MILK* is to be corrected according to *Art*, which may be easily performed by proper *Medicinal Means*, and that as well with respect to its *Quality* as *Quantity*: However, as this *Case* belongs to the *SYMPTOMS* of the *Breasts*, which I have already declined speaking to, as in the foregoing

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foregoing Chapter, so I shall no ways enter upon it in this Place. But again——

T H I R D L Y as to her *Regimen*, such a **NURSE** is to make use of, and enjoy a good and convenient *Diet*; abstaining carefully from all *salt* and *sharp* *Victuals*, as well as from high-spiced *Meats*, and strong or spirituous *Liquors*. In short, as she ought to avoid all Sorts of *intemperate Air*, and keep herself clean both in *Person* and *Cloaths*; so she ought always to exercise herself by some light *Labour*, and keep herself in a moderate active *Motion*; prudently suppressing, at all Times and upon all Occasions, the various *Passions of the Mind*: By which means, any *Woman* as above-described, may make a very good **NURSE**, and that even without abstaining altogether either from the moderate Use of *Wine*, or of *Conjugal Conversation*; notwithstanding the contrary Opinion of most *Authors*, provided only that she does not give the **CHILD** suck for an Hour or two after *Copulation*.



C H A P. IX.

Of the Diet and Ablactation, together with the farther Regimen of the CHILD.

B E S I D E S the *external* and *internal Excrements* mention'd in the foregoing Chapter, the **INFANT** in a few days after *BIRTH*, pukes up a certain Sort of *viscid Phlegm*; for which Reason it ought to have no *SUCK* until this *Humour* be evacuated, lest the *MILK* incorporating with that Matter, both should corrupt: To prevent which Inconveniency, some order a little *Oil of sweet Almonds by Expression*, and a small Quantity of *Sugar-Candy*, or a little fresh *Butter* and *Honey* mix'd.

IN-

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INSTEAD of which, however, I have seen some *Jewish Matrons* give also the new-born CHILD for the first Thing, a little SALT dissolv'd and mix'd in a Spoonful of *Hyssop*, or *Saxifrage-Water*; which (tho' no improper *Prescription* in itself) yet I conceive their chief Reason for it to proceed from *Ezek. 16. 4.* where the LORD summing up the Duty of the *MIDWIFE*, says, *Thou wast not salted at all, &c.* Again farther——

THE Learned *Arnoldus de Villa Nova*, advises us to give the CHILD, for the first Thing, half a Scruple of fine pulverized Coral in a little of the *Woman's MILK*; and that (says he) to prevent *FITS*, to which new-born Children are very subject.

ALL which may be indifferently us'd, according to Pleasure, tho' I take a small Spoonful of *Sugar'd Wine*, given twice or thrice a-day, for the first four or five days running, to be the most preferable Remedy for Prevention: By reason that the *Wine* cuts and loosens the *Acid Humour*, preparing afterwards by *Concoction* and *Digestion* what remains, as the *Sugar* temperates and helps to expurge the *Acrimony*: Which being duly done, I would order the INFANT always to rest, laying it not on its *Back*, but on its *Side*, that this *morbifick Matter* may be the more commodiously voided by the *Mouth*, as already precautioned in *Chap. 7.*——

THIS *Humour* being then thus prepared and discharg'd, the *Breast* of some other clean and sound *Woman* may be given the CHILD, until the *Mother's Milk* be purified for its proper Use; which it can scarce be supposed to be, before the *Dissolution* of the *MILK-FEVER*, that is before the *ninth day* after *DELIVERY*: From which time, it is to be maintain'd and nourish'd for the first three or four *Months* by *BREAST-MILK* only; augmenting however its Allowance from day to day, in proportion to its *Age* and *Strength*, that the weak *Stomach* may never be overloaded, so as to occasion *Vomiting*, or (which is worse) a *DIARRHÆA*: To prevent which *Inconveniency*, let the

the *INFANT* rather *suck often*, and *a little at a Time*, than too much at once.

AFTER these first Months are over, a little thin *PAP* may be given it every Morning, and in time twice a day ; which is commonly made of *Flower* and *Milk*, or *Ale*, with a little *Sugar* and *Butter* : But because *FLOWER* is of itself *humid* and *viscid*, and may not only occasion *Pains* and *Obstructions*, but also, engender *Gravel* and *Worms*, it ought to be first well *dryed* in a new or clean earthen *Pot* in an *Oven* ; or, what is better, the *PAP* may be made of the *Crumb* of a *Loaf* : Which Diet is properly observ'd, until the time of *Teething*, laying it still, a little after its *Meal*, to rest upon its *Side*, or now and then upon its *Back*, with the *Head* a little rais'd ; however not in the *Bed* with the *NURSE*, for fear of overlaying it, but in a *CRADLE* close by her *Bed-side* ; always very carefully covering the *CHILD's Face*, that the *Light* may not offend its tender *Eyes*, and render them any ways *distorted* or *goggled* : And as the *INEANT* may be brought up by the *Hand* without *Suckling*, so it may easily be accustomed to Sleep without *Rocking*. But be that as it will, as soon as the *CHILD* is furnish'd with *TEETH*, it is proper by degrees to use it to a little more solid *Food*, such as *Bread* and tender *Meats* or *Fleshes*, however, a little chewed by the *NURSE* : In the mean time no *Crude*, or *Meats* of hard *Digestion*, are to be allow'd it ; because such Things produce a *Corruption* of *Humours*, whence *Worms* engender, and other various, grievous, and irregular *Symptoms* arise.

BUT before I proceed farther, I ought to observe, that the Duty of the Nurse does not consist entirely in the abovesaid Conditions ; for the *BABE* must be as duly *washed* and *shifted*, *unswaddled* and *reswaddled* as *FED* : Wherefore from the *BIRTH*, until the third or fourth *Month*, it ought to be *loosed* and *washed* all over in warm *Water* twice or thrice a day, before the warm *Fire* ; as also in the night time if necessary, that the *Acrimony* of the *Excrements* may not offend it : Upon which at every

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very singular Occasion, the NURSE may also rub its tender Body gently, not only for the better *Concoction* of its *Aliment*, but also for strengthening and consolidating its *Members*; which Offices being all carefully and affectionately done, the INFANT is to be *shifted toties quoties*, and orderly reswaddled in clean, dry and warm *Clouts* and *Blankets*. However yet, from the third Month until the *Teething-Time*, the Body needs only be *washed once a day*, or (if you please) every other day; as from thence forward it may only be *twice a Week*.

MOREOVER, when the CHILD begins to use its *Hands* and *Feet*, if it moves briskly from place to place, it is a good Sign of a strong and lively *Constitution*; as it is the *Reverse*, when it sits torpidly or drowsily still and unactive. Which notwithstanding, these *brisk INFANTS* are not to be allow'd such *Motions* too soon, I mean not to use their *Feet* prematurely or too fast, as many ignorant Nurses commonly encourage them to do: Because by these means, their tender Legs may be easily distorted or become crooked. Whereas when they are more firm and well grown, they may be learned to walk by the help of the NURSE's *Hand*, or of a *Leading-String*; as afterwards they may be inur'd to walk of themselves, by the means of a small *Vehicle* or *Chariot*, as is generally well known in populous Places.

AS to the time of *Ablactation*, or weaning the CHILD from the *Breast*, it is not always the same; *some* being more robust and lively than *others*, and consequently may be sooner *wean'd*; but *others* are more weak and tender, and accordingly require longer time of the *Breast*. However this be, the INFANT ought not to be wean'd before it has its compleat *Sett of Teeth*; because if sooner, it can no ways duly prepare its *VICTUALS* by the *Mouth*, for *Concoction* in the *STOMACH*, which may be of very bad Consequence: Besides, in the time of *Teething*, especially about the

Eruption

Eruption of those call'd the DOG-TEETH, the CHILD is subject to *Fevers*, Pains of the *Gums*, and various other *Symptoms*, which would certainly be of more *Danger* by far, if it was at that *Juncture* to be deprived of the BREAST.

OTHERWAYS, I take the due and proper Time for *Weaning* the INFANT, to be about the 18th or 24th *Month*, rather longer than shorter; because it surely finds the Benefit of this proper and benign *Aliment* all the Days of its Life. Yet at what time soever it happens to be done, the CHILD is not on a sudden to be accustomed to *different sorts* of VICTUALS, but rather, while it yet *Sucks*, to be gradually brought to the *Use* of what is most convenient for its *Nutrition*, such as *Hen* or *Chicken-Broth*; or the *Soup* of other Meats, mix'd with a little *Crumb* of *Bread*; or a *Soup* made of *Ale*, and *Crumbs*, with a little *Fresh-Butter*, which is of excellent *Nourishment*: As before, or about the Time that the INFANT is to be *Wean'd*, a little half *chew'd* Meat of any Sort, provided *sweet* and *fresh*, may be given it for a good *weaning Repast*.

UPON this Head, I shall only farther observe, that the ABLACTATION, or *Weaning*, always happens more conveniently in the *Spring* or *Autumn*, than in the *Summer* or *Winter*, and that more auspiciously with the *encreasing* than with the *decreasing Moon*: And this, because otherways, besides the *Alteration* which happens to the CHILD from the Change of its *Diet* and *Aliment*, another may easily affect it from the *Caldity* or *Frigidity* of the *Ambient Air*.

BUT besides, in short, that the INFANT may be the better and the more readily *Wean'd*, the NURSE's *Nipples* may be anointed with the *fresh Juice* of *Wormwood*; or with a *Liniment* of the same *Juice*, *Honey* and *Aloes*; or any other proper *Ingredients*, discreetly us'd, that its tender *Lips* or *Gums* may not be inflam'd, nor the weak *Stomach* hurt or offended. However, the better way is, that the NURSE

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withdraw herself from the CHILD'S *Presence*; upon which it is to be plentifully fed, as already advis'd, allowing it a little *Ale*, but no *Wine*, for its Drink.

NOW as to the DIET and *Regimen* of Children from ABLACTATION to the first *Seventh Year* of their Age, I would farther observe, that it differs yet altogether from that of more adult Persons, since their infirm *Habits* and tender *Bodies* can no way tolerate, or withstand the consequential *Effects* of an irregular DIET, or an Erroneous *Regimen*: Besides this Age requires VICTUALS frequently, and that not only what is sufficient for *Nutriments*, but also for *Growth*: And moreover they ought still to be now and then bathed or washed at Times.

BUT touching the *Affections* and *Passions* of their Minds, great Care must be taken, that they be not provoked to *Wrath* or *Anger*, nor frighted with fearful *Notions* or *Phantasms*; since such Things make strong *Impressions* upon their soft *Bodies*, and frequently give ORIGIN to *Convulsions*, *Epilepsies*, &c. However, as Children are naturally more prone to *Evil* than to *Good*, and to *Vice* rather than to *Virtue*, they are not to be too much indulged; but from their *Infancy* upwards, all such perverse *Faculties* and *Passions* of Mind are to be so curbed and moderated, that they may become subservient and obedient to *Reason*; and that because this very Age is the proper Time to lay the *Foundation* of their future good *Qualities* and *Dispositions*, agreeable to the *Rules* and *Præscripts* of a right rational OECONOMY.

I know This is sometimes accounted a hard Task, but if we consider that the *WHELPS* of *Savage Bears* and *Lions* may be so tamed, as to obey the *Motions* of their *KEEPER*, how much more easily may the *Sons* of *MEN* be inur'd to follow the *Laws* of right *Reason*? Their *Passions* first discover themselves most commonly by *Crying* and *Tears*, tho' sometimes also otherways; wherefore such *FITS* of *Anger* or *Passion* ought to be prudently reprehended in them;
and

and when neither *Admonitions* nor *Commands* may prevail, then *Threats* ought to take place, that all *Forwardness* and *Obstinacy* may be stifled in the *Bud*; for the *Mind* of *Youth* may be justly compar'd to a *Mass* of *WAX* or *CLAY*, on which we may readily *stamp* what *Impression* we please to make.

FOR these *Reasons*, their *Attendants*, or such other *Persons* as may be occasionally about *Children*, ought carefully to avoid *doing* or *saying* any *mean*, *base* or *vile Thing*, especially in their *Presence* or to their *Knowledge*; since here the old *Proverb* holds most true, that, *we are drawn by Precept, but led by Example*. Wherefore to moderate and mitigate their *Passions*, *CHILDREN* ought to be allowed proper *Diversions*, and such *Exercises* of *Body* as their *Age* and *Constitution* will permit; and that also, because if they were to be brought up lazily or fluggishly, without *Motion* or *Exercise*, their *VICTUALS* which is now commonly given them both plentifully and frequently, could not possibly *disperse* itself nor *digest*, upon which the *innate Heat* would infallibly suffer a sensible *Decay*.

THESE Things being duly observed, it now only farther remains, that the *CHILD* be well train'd-up, and carefully educated; infilling all along into its *Mind* the *Principles* of *Humanity* and *Morality*, and instructing it gradually in the *Knowledge* of *Arts* and *Sciences*; which it will even at this tender *Age* be found capable of *Conceiving*: For the *Human Mind* being naturally adapted to attain to the *Cognition* of all sublunary *Things*, may be thus endued and furnished with the most laudable *Arts*, before it can distinguish the *Use* of them; since according to the *Philosopher's* wise saying *, *Nostrum scire nihil aliud est, quam Reminisci*. Because (I say) the *Mind* of *Man* perceives and comprehends the *Notion* and *Knowledge*

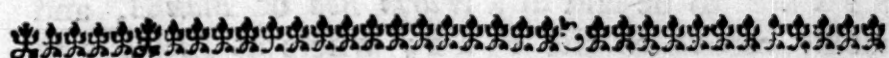
* *Plato in Phaed.*

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of all temporal Things in it self, notwithstanding that it cannot easily display it self, by reason of the burthenfome Oppression of the *Body* and its gross *Humours*: Like as a *FIRE*, overlaid with *Ashes*, must be raised up and fomented, before its engender'd or retain'd *Sparkles* can exert themselves with any *Lustre*; so it is even with us, before the *Light* and *Instinct* of our *Natures* can shine forth: For as some *Roots* cast no *Smell*, or breathe no *Fragrancy* of themselves, unless they be softly touched or squeezed with the *Hand*; so neither do our *Natural Powers* and *Faculties* exert or show themselves, unless they be diligently exercised and cultivated.

THUS we have now guided and conducted the *CHILD* from its *BIRTH*, to the *Seventh Year* of his *Age*; which being only meant by the *INFANT*, that was safely *Born*, and continued all along in *Health*; I come now in the next place, to hint upon what is farther *Requisite* towards the rearing of such *CHILDREN*, whose *Misfortune* it may be, either to come into the *World* with *Infirmities*, or to be afterwards subjected to them in their *Cradles*. And *FIRST*,





CHAP. X.

Of the various Symptoms and Indispositions wherewith the CHILD may be Born.

SINCE some only, not all CHILDREN, happen to bring *Infirmities* with them into the World; and because such *Indispositions* as are chiefly meant here, discover themselves presently at the Time of BIRTH, and require immediate Cure; I shall concisely enter upon, and briefly comprehend them All here, as they most commonly fall out, in this present Chapter.

IN order to which, I shall previously observe, that such *Inconveniencies* happening to the INFANT, may have a double *Origin*, and proceed either from a *Defect* in Nature, or the *Effect* of a difficult BIRTH: The *First* may take Rise from various Causes, such as of the *Parental Seed*, the *Forming Faculty*, the *Maternal* or *Uterine Constitution*, an illegitimate Time of BIRTH, and the like; as the *Latter* may also arrive, not only from a *Difficult*, or *Preternatural LABOUR*, &c. but also from the ignorant, rough Usage, or barbarous Treatment of the MIDWIFE. However, not to insist too long on these Things, it very often, and too commonly happens.

I. THAT, The CHILD suffers so much in the Birth, that (when born) it is hard to know, whether it be *dead* or *alive*, not one part of the Body being perceiv'd to move; which however may be thus well known, *viz.* by laying my Hand upon its Breast, I shall feel the Motion of the Heart, if alive, tho' never so weak; as I shall also perceive a small *Pulsation* of the Arteries, by touching the NAVEEL-STRING near the Belly.

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IN which *Case*, I would immediately order the *INFANT* to be laid in a *Warm Bed* or *Blanket*, and quickly carried to the *FIRE*; where its *Mouth* is to be open'd, as its *Nose* is to be clean'd and unstopp'd with small *TENTS* dipp'd in warm *White-Wine*, and *Linnen* wet with the same applied to its *Breast* and *Belly*; spurting always in the mean time, a little of the same *Wine* into its *Mouth* and *Nose*, until it begin to stir: Or then I would distil a drop of *Aqua-Vitæ*, from time to time upon its *Tongue*, bathing its *Pulses* and *Nostrils* with the same, while I anointed its *Mouth* with *Honey*.

II. IT sometimes only happens, that the tender *FACE* is bruised *Black* or *Blew*, *Pale* or *Livid*; which may also as well proceed from the *Bones* of the *PELVIS*, or from the *CHILD*'s being Born *Face-upwards*, as from the *MIDWIFE*'s hard *Usage*. In this *Condition*, I would only order it to be frequently anointed with the *Oil of Sweet Almonds*, drawn without *FIRE*, that is, by *Expression*; upon which it soon recovers its *Natural Colour*.

III. AGAIN sometimes the *INFANT* is born with a *KNOB* or *TUMOUR* on the *Crown* of its *Head*, occasion'd by its hard *Pressure* against the *ORIFICE*, or by its strict *Compression* in the same: In which *Condition*, I would immediately foment it with warm *Wine* or *Aqua-Vitæ*, and apply a *COMPRESS* to it, either wet in the same, or in the *Oil of Roses* and *Wine* beat together; and the same *Fomentation* and *Compress* may serve for any other Part of the *Body*, which may be swell'd by rough *Usage*, or otherways, in a difficult *BIRTH*. But in *Case* of *Suppuration*, it must be open'd in a proper place with a *LANCET*, applying afterwards a *PLAISTER* of *Betony*. As also in *Case* of a *Fracture*, or any sort of *Dislocation*, the *Parts* must be join'd and reunited, and duly retain'd in their *Natural Position* by convenient *Boulsters* or *Splinters*, until they be firmly closed and reconjoin'd. Moreover

IV. IN

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IV. IN *Difficult BIRTHS*, it very commonly falls out that the *HEAD* is pressed into an *oblong Form* by the *Bones* of the *Pelvis*; because the *SCULL* not being made of one piece, is not equally hard or firm; the *Sutures* being only surrounded with *Membranes*, especially the *Top* of the *HEAD* is so *Membranous* and soft, that the *Bones* forming the *SCULL* may be easily pressed one upon another; from whence we have this *oblong Figure* of the *HEAD*. However, in short, this may be corrected and reduced to its *Natural Shape*, by frequent, but cautious and skilful, *Handling*.

V. *WEAK CHILDREN*, and such as come *prematurely*, or before their *Time*, into the *World*, have the *Mould* and *Sutures* very open, and the *Bones* far distant: In which *Condition* they are only to be softly bound about with a small *Cross-Cloth*, committing the rest to *Nature*; which in time, and by degrees, will close up and consolidate these *Sutures*; and sooner or later, according to the *innate Heat* and *Moisture* of the *INFANT*, unite and join the *Bones* of the *HEAD*.

VI. *SOMETIMES* also it happens that the *CHILD* is *Tongue-ty'd*, by the too strait *Astriction* of its *BRIDLE*; so that this *Member* cannot freely extend or move itself, thro' the *Capacity* of the *MOUTH*; which in the *Infancy* impedes or hinders its *Sucking*, as in riper *Years* it does the *Faculty* of *SPEAKING*: In this *Case*, the *TONGUE*, being supported or held up, on each side of the *String*, by a small forked *Instrument*, ought to be cut *a-cross* by sharp *SCISSERS* as much as is needful; which however must be done with *Caution*, not to hurt the *Veins* under the *TONGUE*.

VII. *THE INFANT* is also sometimes troubled with a small round *Tumour* under the *TONGUE*, fill'd with *vitious Blood*, or *pituitous Matter*; which *Aëtius* and *Paulus Aegineta* call'd *RANULA LINGUÆ*: Which *Case* may be managed, and the *Tumour* dissolved by a little *Ammoniac Salt*, or such other proper

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Remedies; but if Occasion require, the same may be open'd by a *Lancet*.

VIII. IT also happens, tho' but seldom, that the CHILD is born with a close *Fundament*; and that sometimes shut up by the single SKIN, and sometimes by a *fleshy Substance*: In the first *Condition*, there appear some *livid Marks* of the MECONIUM thro' the *Skin*, which feels soft to the *Touch*. Upon which occasion, an *Apertion* must be made with a small *Incision-Knife*, a-cross, not long-ways, that it may the better receive a *round Form*, and not so easily grow again together; which however must be done with great *Caution*, that the SPHINCTER of the *Rectum* may not be hurt: And the *Meconium* being afterwards voided, whether by a *Suppository*, *Clyster*, or otherways; the *Orifice* is to be stopp'd up with a *Linnen-Tent*, anointed at the beginning with ROSE-HONEY, but afterwards with some drying and cicatrizing *Ointment*, such as UNGUENTUM-ALBUM, POMPHOLIX, &c. Dressing it always as often, and as soon, as the *Excrements* are evacuated, lest the *Apertion* should turn to an ULCER.

BUT in the other *Case*, where the FUNDAMENT is stopp'd up with *Flesh*, that neither any Mark nor Appearance of the RECTUM is seen or felt, whereby its true *Situation* may be known, or the proper place where the *Aperture* ought to be made; The *Operation* is much more difficult, and the INFANT but seldom escapes the fatal *Consequence* of this *Misfortune*: Which Difficulty notwithstanding, we are diligently to do our Best upon such Occasions; to which End, an *Apertion* must be made within half an *Inch* of the CHILD's *Rump*, being the certain place of the RECTUM; which in the *interim* must be perform'd with the greatest Care and Judgment by a small *Incision-Knife* with one Edge, turning the *Back* upwards, and thrusting it so forward, until the *Aperture* be made big enough for the *Excrements* to pass thro', always prudently regarding the

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the SPHINCTER as above; upon which the Wound, &c. are to be dressed and order'd, as in the preceding Case.

IX. IN like manner, it also may happen that the INFANT is born with its *Urinary Passage* shut up; upon which Occasion, a convenient *Apertion* must also be made with a proper LANCET: Which Operation must likewise be perform'd with great Prudence and Ingenuity.

X. MOREOVER, It also sometimes falls out, that the CHILD is infected with the *Venereal Lues*, from the Prædominancy of that *Distemper* in the MOTHER; which Case easily discovers itself by many *Pustules* and *Ulcers* appearing at the BIRTH in diverse Parts of its Body, especially about the HEAD, BELLY, THIGHS and CLUNES: Upon which the Cure may be pertinently protracted to a more advanced Age, tho' prudent Measures may be taken, to keep the *Distemper* under; but if the Condition be Malignant, the Remedy is commonly prevented by DEATH.

XI. FINALLY as to the small or puny Faults of NATURE, such as a distorted or wry MOUTH, crooked or flat NOSE, thick or flabby LIPS, rough or ugly VISAGE, or the like Blemishes, —

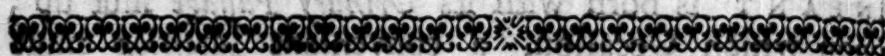
THE CHILD'S Body being tractable like a piece of Wax, or the Potter's Clay, These may be judiciously corrected and Ingeniously amended, and a more Delectable and Amiable FORM given to † every Part; as in Case of any Blemish of the EYES, whether they be Discoloured, or Sparkling, Dim or Short-sighted, Squint or Goggle, Rolling or Goat-eyed; a Lovely black Colour, and a graceful Beauty, may be also artfully given them *.

† Vid. Lev. Lemn. lib. 4. cap. 18.

* Lib. 4. cap. 6.

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NOW (I think) These are all the most common *Symptoms* or *Indispositions* which the CHILD brings with it into the World; which being thus briefly discuss'd, I come at length to —



CH A P. XI.

Of the Sundry Symptoms and Diseases, peculiarly incident to the INFANT after its BIRTH.

NOTWITHSTANDING that the CHILD may be born free from all apparent *Symptoms* of any *Indisposition*, and however careful the Honest NURSE may be of its *Diet* and *Regimen*; yet it seldom happens, but it undergoes some one or more of the following *subitaneous Inconveniencies*, viz. —

I. *GRIPES* or *Pains* of the *BELLY*, which may proceed either from the *MECONIUM*, its not being timely, or not fully evacuated; or from the NURSE'S *Milk*, its generating *Wind* and *acid Humours*, either by her using improper flatulent *FOOD*, or from the BABE'S sucking more *Milk* than its *Stomach* can digest: Or the same *Pains* and *Gripes* may also proceed from the *Effects* of cold *AIR*, or from *WORMS* in the *Intestines*, or from the *unseasonable use* of *PAP*, &c.

THIS Affection in general is known by the *Inquietude* and *Crying* of the *INFANT*, which is now (in a manner) averle to the *BREAST*, continually turning itself here and there, without Rest or Intermission of *Pain*: But more particularly, This proceeding from the *MECONIUM*, may be distinguished and known by the *Colour* of the *Excrements*, since the *MECONIUM* is always *black*, and as soon as it is altogether voided, the *STOOL* becomes *pale*; and that may be readily cured by the means already prescribed.

scribed (a). If this *Affection* proceeds from WIND, it may be known by the CHILD's frequently *belching* and the BELLY's *swelling*; if from COLD, the *use* of PAPA, or from any *pituitous viscid Humour*, the BELLY is most commonly *bound*, and the Cure differs but little from the preceeding Case. If from corrupted MILK or *acid Humours*, the Condition is most commonly attended with a DIARRHŒA, and the *Excrements* are of a greenish or Saffron Colour: The Cure of which, depends upon proper *Abstergents* and Evacuations. If at last from WORMS, their proper *Diagnosticks* shew it, of which in their Place.

II. SOMETIMES an *Extension* or shooting forth of the NAVEL happens to the CHILD, and that frequently to the Bigness of an EGG, more or less; which Case is properly call'd an EXOMPHALON, and proceeds either from the continual Cries, or violent Coughs of the INFANT, or from a *Laxation* or *Rupture* of the PERITONÆUM, or sometimes from an *Exulceration* of the NAVEL.

IN this Condition, whatever the Cause may be, the sooner that the Cure is undertaken, the more easily it is perform'd; for which End, after removing the Causes of *Crying* or *Coughing*, the relaxed PERITONÆUM may be strengthened and astringed; as when bursten, it may be reunited and consolidated by proper CATAPLASMS and SWATHS; after replacing the *Intestines* (if fallen down) keeping the CHILD for the most part in Bed, with its BELLY always loose, and never too full.

III. AND the same is the Method of Cure, in Case of an *Intestinal RUPTURE*, otherwise call'd ENTEROCÉLE, i.e. HERNIA; only, That a Truss is now more convenient than a SWATH: However in this Place I would observe that all Tumours of the SCROTUM, are not to be mistaken for the present *Bursten Case*; because the same may also happen

(a) *Vide* Chap. 7.

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from a *Watry Humour* collected in that Part, which is more properly call'd an *HYDROCELE*, and is easily distinguish'd from the *ENTEROCELE*: Inasmuch, that, in this *Condition* the *Tumour* is most commonly, in one part of the *SCROTUM*, I mean in its *Right* or *Left Side*; when also the fallen *Intestines* may be perceiv'd by the *Touch*; as the *RUPTURE* or *Hole* through which the *Intestines* are fallen, may be by the *Finger*: Whereas in the *Case* of an *HYDROCELE*, the *Tumour* is commonly in *both Sides*, and the *SCROTUM* is more puffed-up, neither is there any *Hole* of a *RUPTURE* to be found in the *PERITONÆUM*. The *Cure* of which *Case* depends entirely upon proper *Absorbents*, or *Discutients*, for resolving and drying up the *WATER*, or dissipating the *WIND*, and afterwards upon *Corroboratives* for confirming the *Parts*. But after All, in the mean Time this *Tumour* is also sometimes, upon occasion, properly open'd by a *LANCET* to evacuate its *preternatural Contents*.

IV. AN *Inflammation* or *Exulceration* of the *NAVEL* may happen to the *CHILD*, by the *String's* falling off too soon, or before it be fully clos'd and cicatriz'd; which may proceed from any violent *Agitation* of the *BELLY*, by continual *Crying*, vehement *Coughing*, &c. as it also may from an unskilful *Ligature* of the *STRING*, or from cold *AIR*; upon which sometimes follows a great loss of *Blood*, and even *DEATH* itself, if not timely prevented.

THIS *Inflammation* is known by the *NAVEL's* swelling-up, being red and hard with *Heat* and *Pulsation*; In which *Case* after appeasing the *INFANT's* *Coughs*, or *Cries*, &c. --- I would apply to it the *Unguentum refrigerans Galeni* & *Populeon*, each one half mix'd; or a small *Bolster* dip'd in the *Oil of Roses* with a little *Vinegar*.

BUT, and if the *NAVEL* continues *Ulcer'd* after the falling of the *STRING* from it; in that *Case* proper *Desiccative* and *Astringent Medicines* are to

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to be apply'd, such as small Rags dipp'd in *Lime-Water*, but not too strong; or in *Plantane-Water*, wherein a little *ALUM* has been dissolved. If the *ULCER* be but small, a *Pledget* of *Dry Lint* will be sufficient; observing always to keep a good *Linnen Compress* on the *Top* of whatsoever *Remedy* is us'd, with a *SWATH* to keep all fast, until the *NAVEL* be perfectly heal'd and *cicatriz'd*; lest at the same time it should also force itself *outwards*, as in the foregoing *Case*.

V. THE *Child* is also very frequently troubled with the *APHTHÆ*, or *Ulcers of the Mouth*; commonly call'd the *THRUSH*: Proceeding either from vitious *Milk*, or from its *Corruption*, in the *STOMACH*; emitting sharp *Vapours*, which readily affect the tender *Skin* and *Superfice* of the *INFANT'S Mouth*, and that the more easily, because the same *Tunick*, or *Skin*, which invests the *Mouth*, is common to the *Gullet*, which naturally communicates the *Affections* of the *VENTRICLE* to the *Jaws*. Hence it is that the *Nice Taste* of the delicate *TONGUE* so readily distinguishes all *Relishes*; and hence it is that the *Ingenious Physician*, by looking upon the *TONGUE* only, is able to judge of the prevailing *Intemperament* of the whole *Body*.

THE *Cure* of these *THRUSHES*, proceeding as aforesaid from the *acid Vapours* of bad *MILK*, or from its ill *Digestion*, depends properly and entirely upon defeating and obtunding the *ACRIMONY*, by proper *Absorbents*, and gentle *Purgatives*.

VI. ANOTHER *Symptom* not only familiar, but even *Natural*, to all *CHILDREN*, is their *Teething*; which tho' *This* be the mere *Work* of *NATURE*, yet because of the various *Distempers* and *Symptoms*, which commonly attend and conjoin this *DENTITION*, it is not improperly reckon'd in the *CATEGORY* of the *Diseases* of *INFANTS*: Which however is to be understood, not of the *Simple DENTITION*, but of the difficult *Breeding* of *Teeth*; Not but that the
CHILD

CHILD is furnished with *Teeth* even before *BIRTH*, tho' they lurk so long in their proper *Sockets*, being cover'd with the *GUMS*, until their due *Time* of *Eruption* (a). Tho' in the *Interim*, it has been observed that some *CHILDREN* have brought eminent *TEETH* with them into the *World* (b), as it is also for *Instance*, particularly reported of *LEWIS* the *XIV* of *France*.

BUT however the *TEETH* most commonly break out about the *Seventh Month*, and first those call'd *Dentes Incisores*, or the four fore-*TEETH*; which after a short *Interval*, are followed by the two *Dog-Teeth*, commonly call'd the *EYE-TEETH*; and at last succeeded by the eight *Cheek-Teeth* or *GRINDERS*, in each *Jaw*; the two last of the *Molares*, properly called *Dentes Sapiientia*, springing only out about, or after the one and twentieth *Year*. Now as this *Eruption*, particularly that of the *DOG-TEETH*, because of their very deep *Root* and small *Nerve*, cannot happen without an exquisite *Sense*, and intense *Pain* to the *INFANT*; so, from the continual *Solution* of the *GUMS*, many præternatural *Affections* seize the *CHILD*, according to *Hippocrates's Catalogue* (c); to which, in short, I must only refer: Because if I was to enter upon the particular *Detail* of all *These*, I should extend the *Limits* of this *WORK* beyond all measure; wherefore I shall endeavour to comprehend them all under the one following general *Head*; viz.——

(a) *Senert. de Dentit. Part. 2. cap. 14.*

(b) *Plin. Nat. Hist. lib. 7. cap. 16. Ronssaus de vita hum. Primord. cap. de Dentit.*

(c) *Sect. 3. Aph. 24, & 25.*

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CHAP. XII.

Of the Acute Diseases of INFANTS:

THE very tender Nature and infirm Constitution of CHILDREN, subject them to many various and grievous Symptoms; besides those to which they are expos'd by a vast variety of Procatartick Causes. But as I am not in this place to enter upon the Detail of these particular Symptoms, neither shall I enumerate their respective Causes: Which however is the less requisite, considering the Regimen and Nursment of the CHILD already prescribed in the foregoing Chapters; since the least step, degenerating from what is there inculcated, may prove an effectual mediate Cause; for all that indeed, according to the most Learned and Excellent Dr. Harris, the only immediate Cause of all CHILDREN'S Diseases is, an Active and prevailing ACID. †.

THIS Doctrine, in as much as the Constitution of INFANTS is undeniably most Humid, appears also evident from Hippocrates's his own Words, saying, the Rise of all Diseases is one and the same, the Place only makes the Difference *. Hence we may justly conclude, FIRST, That, however the Symptoms may differ in degree, the Diseases of the INFANT-*State* are but very few: SECONDLY, That the Cure of these is far more Safe and Easy, than those of full grown Persons: THIRDLY, That the Younger the Sick CHILD is, the more easy still is the Cure: Because its tender Body, abounding with Natural and

(†) Lib. de Morb. Acut. Infant.

* Lib. de Flat.

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acquired Moisture, is soft and flexible, and consequently apt to receive any *Alteration*: And F O U R T H L Y, I observe that the I N F A N T easily falls into *Sickness*, or may be suddenly taken Ill, and as readily restored to *Health*, if but carefully and ingenuously *treated*: Because any *Impression* whatsoever, good or bad, is sooner received by a *Soft*, than by a *Hard Body*; tho', I confess, the same is more *Lasting*, if once strongly impressed upon the *Hard adult Constitution*.

NOW as to the *Diagnosticks* of CHILDREN'S *Diseases*, These depend chiefly upon the *Relation* of the N U R S E S; since all *Sentiments* taken from their unruly P U L S E S, or their (naturally) thick U R I N E S, prove most *Uncertain*. However, as the S T O M A C H is always affected with an *Acid Distemper*, (whatever the reigning *Disease* may be, or howsoever it may be intitled by ingenious *Authors*) so it most commonly produces *Fastidy* or *Loathing* of V I C T U A L S, *Vomiting* of a thick G E L L Y, or a viscid and coagulated P H L E G M, *sour Belchings*, and E X C R E M E N T S of a *sourish Smell*, and a *greenish Colour*, especially in the *Beginning*. As afterwards---

I F the *Distemper* continues, the P A T I E N T turns gradually *Pale*, and its discoloured F A C E is tinged a little *Green* or *Yellowish*; The B E L L Y swells with *Wind*, which breaks frequently *upwards*; one or more red *Pustules* (a certain sign of *Acidity*) commonly rise in the F A C E, or upon some other *upper Part* of the Body; and the I N F A N T growing daily worse, *breathes high*, and *smells sour* or A C I D.

A G A I N, As to the *Prognosticks* of these *Distempers*, of what kind soever they be, which afflict the I N F A N T; I cannot in short, but readily agree with the most *Ingenious Doctor* before-mentioned, who plainly tells us, that *These* depend chiefly upon the *Method of Cure*, and the *Conduct* of the N U R S E; Wherefore I proceed to the C U R E.

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AS to this point then of the Cure of CHILDRENS Diseases, I shall FIRST observe that, how many soever these Distempers are accounted, according to the REGISTERS of Polite Authors, by what Name soever they are denominated, and how learnedly soever defin'd, as they all proceed from one immediate efficient Cause, (which has been already hinted at) so the Cure of them all is the same, and depends, in like manner, upon One only regular Method.

SECONDLY, I observe that as this Cause is nothing else than an Acid Humour, abounding in the Stomach, and coagulating the imbib'd Nourishment of the INFANT, (as is evident from all the given Diagnostics) so the proper Method of Cure, depends entirely upon obtunding that Acidity, dissolving those Coagulations, and eliminating the peccant Matter. But more particularly,

HAVING always a great and due regard to the natural Debility, and tender Constitution of the Young PATIENT, the Acid ought first to be prepared by prudent means, and then to be carried off by proper Medicines. I say prepared by prudent Means, because this is no indifferent Matter; For if we should take the same Method with these tender Creatures in this Case, that we do with more adult Persons, we would certainly miscarry in our Attempts; or if we should attempt this Preparation, by Alexipharmacks, Cordials, (improperly so call'd) Causticks, or Sudorificks; these Things being most prejudicial to the Nature of young ONES, would rather promote the Crudity, than the Concoction of the HUMOURS.

THEREFORE the ingenious Doctrine of the Excellent Doctor HARRIS, must certainly take place here, namely (a), that the most temperate Things most securely absorb the prevailing Acidity, and that the

(a) De Morb. Acut. Infant.

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more Simple and Gentle the Remedies are, the more Safe and Certain the Cure is.

HENCE the simple Testaceous Medicines mentioned by him, are not to be parallel'd in the present Case; since they effectually mitigate all *Ebullitions*, and gradually become the most safe and powerful *Anodines*: Inasmuch, that they, in a word, as certainly assuage all the *Pain*, *Gripes*, *Disquiets*, *Watchings*, &c. of CHILDREN; as *Narcoticks*, or *Opiats*, do allay those of older People.

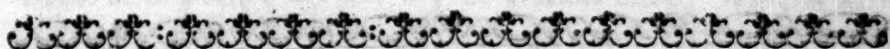
THE Body being then alter'd by these means, and the *Humours* duly prepared, they are to be forthwith ejected, or timely purged off, even from the youngest INFANTS, as well as from those of riper Years: The *Doses* and *Quantities* of all sorts, being discreetly adapted to the *Age* and *Strength* of the CHILD, under what *Form* soever they may be given.

UPON this Head, I might indeed pretend to expatiate, but because, whatever I, or any other *ingenuous Person*, understanding the Matter in Hand, may attempt to offer, will only terminate in, and be contemporaneous to, what my last quoted *Author* has plainly laid down, and concisely comprehended in a few *emphatick Words*; I shall here also, for Brevity's sake, set Bounds to my Progress. And thus, in short, having at large, and in every particular Respect, faithfully discharged my Duty, both as *Physician* and *Midwife*, to the CHILD as well as to the MOTHER; I now take leave of both the one and the other, and in the next place, come briefly to touch upon the *Reverse Cases*.





S E C T. VII.



C H A P. I.

Of Præternatural CONCEPTIONS.

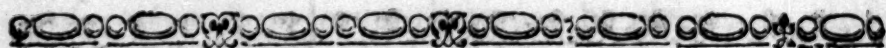
HAVING particularly defin'd the *Natural Conception*, in Chap. I. Sect. III. and hitherto treated of its various different *Consequences*, both in GESTATION, BIRTH and CHILD-BED; I come in the next place (conformable to my promise before-mentioned) to treat of the opposite and *reverse Case*, commonly call'd (by the *Authors*) a vitious or depravated CONCEPTION: Which however, I shall distinguish by the general TITLE of *præternatural*, as I have one Set of BIRTHS under the same Denomination, contained in Sect. V. But —

NOW, because I judge all such CONCEPTIONS as well as BIRTHS, to be *præternatural*, which, tho' not according to the ordinary Institution of

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NATURE, are yet however not repugnant to NATURE: And because such CONCEPTIONS, as well as the *Præternatural* BIRTHS already defin'd, happen after many different ways and manners; I shall also reduce and divide them into two CLASSES, viz. —

FIRST, *Præternatural* CONCEPTIONS in respect of the Number; to which belong all *Superfætations*, and other Numerous CONCEPTIONS: And SECONDLY, *Præternatural* CONCEPTIONS in respect to the Form or Substance; to which belong all false CONCEPTIONS, MOLES, MONSTERS, &c. Of all which particularly and briefly in their due Order, and FIRST —



C H A P. II.

Of SUPERFÆTATIONS.

A SUPERFÆTATION is nothing else than a *Second* (after a *First*) CONCEPTION: Since if divers INFANTS may be conceiv'd at one Embrace, as will evidently appear from the following Chapter, we may easily believe, that two, three, or more Embraces, may most probably have the same Effect: Which is sufficiently confirm'd by the Experience of Hippocrates (a) himself, as well as by many other most Learned Authors (b).

WHEREFORE I shall spend no time in reciting here any Instances I have met with of this Nature;

(a) De Superfæt.

(b) Avicen. Rhazes, &c.

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only I refer the *Curious* to a very famous collected *History* of such BIRTHS, as in the *Margin* (a). Whence the Certainty of *Superfætation* is not to be doubted, and much less to be disputed: And according to *Aristotle* the same may happen, after the *Second* or *Third Day*, from first Conception, as well as after so many *Months* (b). But farther,

THE Cause of all *Superfætations* is only an *Aper-tion* of the *Orifice* of the WOMB, at the Effusion of the *Virile SEED*. Which however (according to *Avicen*) only happens to such *Women*, as have plenty of BLOOD, or a *Calid WOMB*, desirous of *Copulation*, or to such as have their *MENSTRUUA* after the first CONCEPTION.

SUPERFÆTATIONS however are not easily discover'd before BIRTH; at which time, *Avicen* advises to take Notice of the *NAVEL-STRING*; For (says He) if it be without folds or wrinkles, there is but one CHILD; if otherways, there's a Child for every Wrinkle: But I think the expert *MIDWIFE* using her *Hand*, as I have not unadvisedly inculcated (c), will have but small Occasion for such *Observations*, and far less *Need* to trust to them.

BUT when more than one CHILD is found, they are distinguishable, (I mean *Superfætations*) from *These* conceiv'd at one time; those having each a peculiar SECUNDINE; these ONE only in Commune: As the one is also less vital and more imperfect, than the other; according to the Interval of Time betwixt their CONCEPTIONS.

THE Cure or Prevention of this Case is much the same with the following, viz.

(a) *Marcel. Donat. lib. 4. de Historiar. Mirabil. cap. 16.*

(b) *Lib. 7. de Histor. Animal. cap. 14. & lib. 4. de gener. Animal. cap. 5.*

(c) *Seçt. 4. Chap. ult.*



C H A P. III.

Of a Numerous CONCEPTION.

A *Numerous CONCEPTION* may happen either with, or without *SUPERFÆTATION*: And that *without*, may be truly call'd *Monstrous*; as all *BIRTHS*, exceeding the Number of the *Woman's Breasts*, or the *SINUS's* of her *WOMB*, may be justly accounted.

I could also give many Instances of this sort of *BIRTHS*, where 3, 4, 5, and more *CHILDREN* have been *born at once*, but shall satisfy myself with *This*, which I think is one of the most remarkable, *viz.* That of the *Countess Margaret*, † Daughter to *Florent IV. Earl of Holland*, and *SPOUSE* to *Count Herman of Heneberg*; who, on *Good-Friday*, in the Year of our *LORD 1276*, and of her *Age 42*, brought forth at one *BIRTH 365 INFANTS*; whereof 182, are said to have been *Males*, as many *Females*, and the odd one an *HERMAPHRODITE*: who were all baptized, those by the Name of *JOHN*, these by that of *ELIZABETH*, in two *Brazen Dishes*, by *Don William, Suffragan Bishop of Treves*. The *BASONS* are still to be seen in the *Village Church of Losdun*, where all *Strangers* go (on purpose) from the *Hague*, being reckon'd among the great *CURIOSITIES* of *Holland*. For farther and more Instances of this Nature, I refer the *Curious* to a large collected *History* of such, by the *Author* mentioned in the *Margin* (a). From whence

† *Paraens in sua Chirurg. &c.*

(a) *Johan Schenck. Lib. 4. Observat.*

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the Certainty of Numerous CONCEPTIONS will evidently appear.

AGAIN the Cause of such Numerous CONCEPTIONS is (according to Avicenna's just Opinion) the Division of the SEED in numerous Portions, or Proportions; which may happen, either because of the WOMB, or because of the INJECTOR: Because of the WOMB, when its Cavity is larger than ordinary; or when it too greedily attracts to all its Parts; or when the divided SEED adheres separately to the singular Uterine Veins: Insomuch, that if what has been recorded of the abovesaid Countess be true, it is not improbable that, there may be a CONCEPTION for every Orifice of the Uterine Veins, and that every Vessel may attract its own distinct share of the SEMINAL Matter, and thereupon initiate a respective CONCEPTION, tho' it cannot possibly bring it to Perfection.

MOREOVER the same may also happen, because of an irregular INJECTION, namely, when that is perform'd by stops and intervals; then the WOMB attracting accordingly, may occasion different CONCEPTIONS, according to the different Immissions or Divisions of the SEED.

BUT these CONCEPTIONS, whether two, three, or more, are always annexed to, and contained in one common SECUNDINE. And tho' the Woman, by reason of her good Constitution of Body and WOMB, may do well in the time of Gestation, yet her Præternatural Condition in the BIRTH, always threatens Danger, as is already made out more manifestly (a).

NOW as to the Cure or Prevention of both this and the preceding Case, I know but one only grateful

(a) Vid. Sect. 5. Chap. 17.

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Method of performing it; viz. by refrigerating and reducing the too *calid* WOMB to a convenient *Temperature*, and using a proper *Regimen* of *Health* and *DIET*; and *that* both before and after CONCEPTION.



CHAP. IV.

Of False CONCEPTIONS.

HAVING already also particularly defin'd the *real* or *true* CONCEPTION in *Sect. III. Chap. I.* I come now in like manner to the REVERSE of that *Case*, properly call'd a *false* CONCEPTION. But that I may, in this Point, be well understood,——

A *False* CONCEPTION, in my Opinion, is nothing else, but a *Protuberancy* of the *Woman's* BELLY, attended with some, if not with most, of the *Symptoms* of the Months of GESTATION; which however, is no ways occasion'd by a humane FOETUS, but (on the contrary) either by *Water* and *Winds*, or *Wind* and *Water* vitiously mixed; which is also pertinently call'd a *Dropsy* of the WOMB: Or then, by a corrupted *Viscid*, or *pituitous* Matter collected in the WOMB; and that either proceeding from weak and vitious SEED, or from some extraordinary *Intemperature* of the WOMB, which may hinder the *Elaboration* of the SEED and BLOOD, and consequently the *Accomplishment* of the CONCEPTION: Or the same may also finally proceed from the *Impurity* of the MENSTRUUM, which may corrupt the SEED, and convert it to *Aqueous*, *purulent*, or other HUMOURS.

THIS

THIS *false* CONCEPTION is attended (besides the common *Symptoms* of a *true* CONCEPTION) with inordinate *FEVERS*, *PAINS* of the *Head*, *Neck*, *Loins*, *Groins*, *Back*, and *Belly*: Which *BELLY* swells sooner than in the *Condition* of *real* CONCEPTION; and which, if struck with the *Hand*, gives a *Sound* like a *DRUM*; whence 'tis also call'd a *TYMPANY*: The whole *Body* is hence discoloured; the *Feet*, and sometimes the *Face* swells; and only a little (if any) *watery* *MILK* is found in the *Breasts*. THE *Cure* of the *Case* depends entirely upon proper *Evacuations*, peculiar to the *Quality* of what is to be evacuated. Whence I come to treat of the *Conception* of *MOLES*.



C H A P. V,

Of MOLES.

A MOLE is properly nothing else, than a *fleshy* *Mass* (instead of a *FOETUS*) engender'd, of an *imperfect* CONCEPTION, in the *WOMB*. And is so call'd, because (*quasi Lapis Molaris*) like a *MILL-STONE*, its *weight* infests the *Woman*.

THERE are two immediate *Causes* of this CONCEPTION of *MOLES*, viz. the *Superfluity* of *Matter*, and the *infirmity* of the *forming Faculty*. Which, I think, is agreeable to *Hippocrates* his meaning, saying, that too much *Menstruous Blood*, or too little, weak, or *insufficient* *SEED*, is the *only Cause* of a *MOLE* (a).

(a) 1. & 2. *De Morb. Mul.* & *lib. de Steril.*

I know, that besides these, there are many other various *Causes* given by diverse *Authors*; yea I know that the *MOLE* it self is variously accepted among them: But as I am not to insist upon the *quibbling* Notions of other Men, so I shall only here observe, —

FIRST, that there is a vast Variety and Difference in the *Substance*, as well as in the *Form* of *MOLES*: SECONDLY, That there is sometimes but *one*, and sometimes *two*, *three*, or *more* *MOLES*, contain'd in *One* *WOMB*; and *that*, sometimes with, and sometimes without the *Natural* *FOETUS*; as also sometimes separately, and sometimes adhering the *One* to the *Other*: THIRDLY, That in this *Case*, if the *FOETUS* be not directly kill'd by the *Compression* of its tender *Body*, it is at least in *Danger* of being *misshaped*, or perhaps *monstrously* formed, according to the *Bulk*, *Weight*, and *Solidity* of what is contain'd with it in the *WOMB*.

HOWEVER in regard to the *FOETUS*, when we are certain of its *Existence*; tho' in the *WOMB*, with *one* or *more* *MOLES*, it may perhaps be very safe; Therefore I again observe, that, in this *Case*, as long as the *Woman* is no ways endangered, the *Exclusion* of *BOTH* ought to be *Natural*, and accordingly the *appointed* *Time* waited for: When according to all *Authors*, the *MOLE* comes sometimes before, sometimes with, sometimes immediately after, and sometimes a few Days, or perhaps Weeks, after the *FOETUS*. But such *MIDWIVES* as follow my *Method*, already plainly laid down (a), will scarce trust their *WOMAN* with the Charge of a *MOLE*, one moment after the *Birth* of the *INFANT* and *Secundine*: Because by such means, yea, even by a small *Clod* of *BLOOD*, which is a far less matter, retain'd after the *BIRTH*, *Millions* of *Women* have lost their pretious *Lives*.

(a) Vid. Sect. 4. Chap. 18.

IN the mean time, as MOLES are most commonly generated *alone*, without any FOETUS; I come now to indicate their peculiar *Diagnosticks*, which the *Reader* may take as follows, *viz.* FIRST, the *Woman's* BELLY swells equally in all its *Dimensions*; whereas in *Case* of a *Natural* CONCEPTION, it is raised, and as it were acuminated or pointed towards the NAVEL, and a little compressed on *both* sides.

SECONDLY, The *Orifice* of the WOMB never shuts in *this*, as it does in the *Natural*, CONCEPTION: And the MOLE may be distinctly felt by the *Touch*, like a *Globular Mass*, in the *Region* of the WOMB and LOINS.

THIRDLY, Any *expert Woman* may also distinguish this *Case*, by its *Motion*; which is very different from that of a FOETUS, as also from that occasion'd by a *false* CONCEPTION as above described: The FOETUS having not only a *total*, but also a *Partial Motion*; which always differs according to the *Part* or *Member* moved; and is consequently *first* perceived about the *fourth Month*: Whereas the MOLE has no distinct *Motion*; only, as the *Woman* turns to either *Side*, she may feel it (like a STONE) falling to the same *Side*; and in her walking, she may easily perceive its *suppressing* dead WEIGHT.

FOURTHLY, Her *Breasts* swell, but give seldom any manner of MILK; and about the 4th and 5th Months, when she, who has a *Natural Conception*, is commonly best in *Health*; then the MOLE-BEARER falls worse; Her *Limbs* and *Legs* extenuate; her *Face* and *Skin* are all over discoloured, as the whole *Body* languishes; PAINS of the *Back* and *Groins* follow of Course, together with a *Difficulty* of *Respiration*; as sometimes also, *Wind* and *Humours* break out of the WOMB.

UPON the whole, the PROGNOSTICK of this *Case* is, that as the MOLE-BEARING *Woman* must in all respects, be very much

much discommoded, and afflicted with heavy threatening *Symptoms*, so she lives continually in Danger of her Life: And the longer she entertains this unweildy *GUEST*, the more rigid it grows, and the closer it sticks to her; so that consequently, the more difficult it is to dislodge or extract this *præternatural Body*: For as the *MOLE* has no *Secundine*, nor *Umbilical Vessels*, but adhering by its own gross *Substance* to the oppress'd *WOMB*, attracting its *Nourishment* directly from the *Uterine Vessels*; So it also fixes it self more and more strongly, and the longer the more firmly among them, to the great Prejudice and Damage of *NATURE*.

NOW, as to the *Cure*, or the *Delivery* of the *MOLE*, as has been said, the sooner it is undertaken, the easier it is performed: And in this *Case*, I know all *Authors* advise only, to endeavour its *Expulsion* by *Bleeding in the Feet*, by proper *Baths*, by strong and *Acrid Glysters*, &c. in order by such like means, to excite or stir up *THROWS* to open the *WOMB* and irritate the *expulsive Faculty*. But for my part, I would not too much afflict the *PATIENT* with these uncertain means, especially if the *Præternatural Body* be of any long standing; but rather at once betake my self, to that which cannot fail me, that is the *HAND-CURE*; after Bathing, relaxing and moistening the *PASSAGES* with *Oils* or *emollient Ointments*: And This I would undertake, and perform after the same manner, as in the *Condition* of a *Dead Child*, when the *PAINS* are altogether *Deficient*. Again farther —

I observe that, of all the *Countries* I know, there is none, whose *Women* are so subject to *MOLAR CONCEPTIONS*, as the *Provinces* of *Holland*: And moreover, by what I have diligently observ'd my self in those *Parts*, as well as by what I have comprehended from their most *Learned Men*, the *MOLES* generally conceived there, are very different from *Others* commonly conceived in other *Parts*: Infomuch that *Those* are of a strange, astonishing, deformed shape, having

having (as it were) something in them like the *Rudiments* of a *Work imperfectly begun*; such a *Piece*, as, for Example, a *Limner* may draw at the first *Draught*, with a rude *Pencil*; together with something of both *Life* and *Motion*: *LIVING* however only (as it were) *Vitâ Plantæ*, and moving but by *Palpitation*; as I have also seen and observ'd this *Body* to contract it self sensibly at the *Touch*, and immediately again dilate it self perceptibly. In the *interim* I must farther observe in this Place, that most commonly *NATURE* ejects these *Bodies* happily about the *fourth Month*; however yet, not always all at once, but most frequently by *Peice-Meal* and in *Heaps*, not unlike as the *PUMP* does the *Bidge-Water* out of the *Ship*.

BUT here it may be ask'd, why the *Dutch good Women*, should be more subject to these *Præternatural Conceptions* than any others? To which I answer, according to the *Sense* and *Sentiments* of most of their own greatest *Men*; *FIRST*, that all over these *Provinces*, the very *Borders* of the *SEA* are inhabited, and a *World* of *People* live (as it were) in the very *Jaws* of the *OCEAN*; whose bellowing *Waves* and tumultuous *Surges*, are not only obvious to their *Eyes* all *Day*, but obnoxious also to their *Ears* all *Night* long; as they continually beat upon their *Coasts*, and sometimes too near their very *Doors*: From whence these *Women* cannot but be much affected and disturbed, if not also frightened in their very *Embraces*.

HOWEVER yet, I do not conceive *This* to be always the *CAUSE*, since *MOLAR CONCEPTIONS* are also very common in their greatest *Cities*; But as those happen there most frequently among the *Seafaring Men's Wives*; so, I think, we may rationally account for them after this ensuing manner, *viz.* The *Sailers* arriving from their *Voyages*, and coming Home merrily with full *Sail* up to their very *Doors*, incontinently embrace their *WIVES*, without having any regard to their *Natural Course*, the *SILENT-MOON*,
or

or any other *Circumstance*; And the honest *WIVES*, having perhaps long wanted their *Husbands*, make no *Procrastination*, but eagerly fall to enjoying *One Another*; the good *Women* attracting as greedily the virile Benevolence, as *Nature* can prompt, or as *Cerberus* could snap at a *Piece*, or the *Hunger-starved* a *Bit of Bread*. Upon which, if no *Efluxion* happens in the Beginning, *NATURE* being incapable of *elaborating* such an *unapt confused Matter*, it is converted to a *MOLE*; which (as aforesaid) is frequently cast forth about the *fourth Month*, and call'd by them *een Manekindt*, as we for the same reason call it a *MOON-CALF*.



CH A P. VI.

Of MONSTERS.

WHEN the *Parts* destinated to the *Generation* of *Man*, are in all respects well constituted, *NATURE* in the Beginning fabricates a fair and comely *Conception*, and at last produces a *Lovely Creature* of its own kind, absolutely perfected, and compleatly furnished with all its own graceful *Ornaments*: Whereas if any *Deficiency*, *Enormity*, *Fault* or *Blemish* be actually in *Those Parts*, then the conglomerated Principles of *GENERATION* are variously form'd into different *Sorts* of prodigious *CONCEPTIONS* and *Monstrous BIRTHS*. However —

WITH respect to the *Variety*, as well as the *Veracity* of this *SUBJECT*, that I may make short *Work* on't, I refer the *Curious Reader* to the *WORKS* of *Jacobus Ruffius*, *Cornelius Gamma*, &c. who have not only describ'd at large, the various *Shapes* and *Figures* of the most remarkable *MONSTERS* which have

Chap. 6: Of MONSTERS. 367

have been Born, but also particularly noted the *Times* and *Places* of their *BIRTHS*; which they have authentically collected from many creditable *Authors*.

IN the small Conversation, by the *By*, which I have had either at Home or Abroad with the *Learned*, I have met with none who have deny'd the *Truth* of this *POSITION* in general; tho' some of my *Superiors* in this Place, have been pleas'd to contradict in particular, what I am just now going (and chiefly for that very reason) about to publish to the World, in the next following Chapter.

BUT notwithstanding that we all agree as to the *FACT*; yet I have found but few ready to discuss the proper *Causes* of *Monstrous BIRTHS*: Only so far, that some would have them to proceed immediately from the Commixture of *Humane* with *Brutal SEED*; others, directly from the *INFLUX* of the *Stars*; Some again, from a vitious *Constitution*, or oblique *Situation* of the *WOMB*; others also, from a *Lascivious* and enormous *Act* of *Copulation*; and some at last, from the sordid and corrupted *SEMINAL Matter* of the *Persons Copulating*. Which may be all indeed, in some respect, consentaneous to *Reason*; but notwithstanding, in speaking to such *Causes*, I think, we ought previously to consider the *Requisites* concurring to the *Production* of the *FOETUS*; what they naturally are, and how they ought to be qualify'd.

THE FIRST, and chief of which is the *Forming Faculty*; 2ly. The two *Instruments*, by which this *Faculty* operates, viz. the *SPIRIT* or innate *Seminal Heat*, and the *Imagination*; 3ly. The *MATTER*, viz. both the *SEEDS*, and the *Menstruous Blood*; 4ly. And lastly, the *PLACE*, namely the *WOMB*: Whence I conclude that any one, or more, or (perhaps) all of *THESE*, degenerating from their *due state* or *natural Qualities*, may prove the *Cause* or *Causes* of a *MONSTROUS CONCEPTION*, or *Aquivoical GENERATION*.

AS to the *Forming Faculty*, it never errs or fails, but always performs its *Duty*, as far as depends upon it self, or its own *Intention*; tho' indeed it often happens to be frustrated by the *Instrumentary Causes*: As the most ingenious *Artificer* cannot finish his *Work*, however successfully begun, without a proportionable *Metal* to work upon, and corresponding *Instruments* to work by; So it is, in this *Case*, with the *Forming Faculty*: Hence it is that *MONSTERS* are also pertinently call'd, as they undeniably are, the *Works of NATURE*; however degenerating from its proper *END*, that it may effect something, even such a *MONSTER*, rather than that the indigested and unaltered *Matter* should remain in the *WOMB*, and turn either to a *MOLE* or a *STONE*, as has often happened *. Which being thus consider'd, we shall find the *Error* or *Fault* to ly either in the *Instruments*, in the *Matter*, or in the *Place*.

FIRST then, as to the *Instruments*, of the two abovementioned, I take the *Imagination* to have the most prevalent *Power* in *CONCEPTION*; which I hope may be readily granted, considering how common a Thing it is, for the *MOTHER* to mark her *CHILD* with *Pears*, *Plums*, *Milk*, *Wine*, or any thing else, upon the least trifling *Accident* happening to her from thence; and that even in the latter ripening *Months*, after the *INFANT* is entirely formed, by the *Strength* of her *Imagination* only, as has been already manifestly set forth at large †.

WHICH if so, Pray, what wonder is it, if the *Woman* in time of *CONCEPTION* (which is by far the more critical *Juncture*) should by the same reason conceive, and at last bring forth her *FOETUS* with a *Calf's*, *Lamb's*, *Dog's*, *Cat's-HEAD*, or the

* *Senert. lib. 4. Part. 2. Sect. 4. Chap. 10. Herc. Saxon. P. 3. cap. 29.*

† *Vid. Sect. 2. Chap. 7.*

Effigy of any other thing whatsoever? And *this* the more especially, considering, that not only the *conceiving Woman*, but also the *copulating Man*, may effect the same thing; if he should imprudently let his Mind on such Objects, or employ his perverted *Imagination* that way. Now this absurd *Imagination* takes even place also among the very *BRUTES*, as *Lemnius* relates * of a *Sheep* with a *Seals*, or *Sea-CALF'S-HEAD*, having no doubt seen that Animal in the critical Time of *Conjunction* or *Conception*.

IN like manner, supposing such *Women* to conceive in their Minds, some deformed *SPIRIT* or *ANIMAL*, with *Horns*, *Snout*, *Wings*, *Cloven-Feet*, &c. (as has sometimes happen'd) What should hinder this *Woman* to produce a *BIRTH* with these *Monstrous Marks*? *THIS* is also therefore very possible, but more especially, when the *Disposition* of the *MATTER* acquiesces, which it certainly does when the *SEED* and *BLOOD* are impure: For, Is it not manifest to our *Eyes*, that some *CHILDREN* bring with them long *Hair* and *Nails* into the World, merely from the *Impurity* of these *material Substances*? Then supposing the *Force* of an absurd *Imagination* to have seconded the *Efficacy* of such *Sordid Stuff*, what a *MONSTER* might not *these* jointly have produced? Wherefore I shall only add upon the whole of *This*, that as such impious and foolish *Imaginations* ought to be suppressed, so both the *SEED* and the *BLOOD* ought to be pure and temperate, to prevent such *preternatural Productions*.

NOW, as to the *Heat* and *Spirit* contain'd in the *SEED*, we may easily conceive its *Effects*, and such as have been in *Glass-Works*, and have seen *GLASSES* made, may readily comprehend how *MONSTERS*

* *Lib. 4. Cap. 7.*

are formed in the WOMB: For in modeling the GLASS, if the *Work-Man* blow the PIPE too much or too strongly, the *Stuff* is so extended, that the GLASS becomes both longer and wider than its due proportionable FORM; and so it may also happen in the WOMB, by an *immoderate Action*, or too great an *Extension* or *Diffusion* of the SEMINAL SPIRIT, which sometimes may only affect some particular Part, such as the HEAD, NOSE, MOUTH, EARS, &c. and sometimes the whole FOETUS disproportionably.

SECONDLY, Hence we may rationally conclude, that a *superfluity* of SEED, and *superabundance* of material HUMOURS may, in like manner, produce *duplicated Members*, such as Two HEADS, Four HANDS, Four FEET, Six or more TOES or FINGERS, &c. and this especially, in case of the Woman's strange *Imagination* concurring; which may easily happen, by fancying herself sometimes to see double with her EYES, which *Deception* may probably proceed from the *Concourse* of HUMOURS, gross VAPOURS, and confused or distracted SPIRITS. And This in short, it is evident, holds also good among the other Creatures (IRRATIONALS) as *Lemnius* writes * of himself, that He saw a Sheep and a Calfe, each with two HEADS, and a Hen with four FEET and as many WINGS.

AGAIN, as from the *Superabundance* of MATTER, *Geminated Members*, or *Superfluous Particles* may proceed; so from the *Scarcity* of these MATTERS, *Want* of requisite Aliment, or from any partial *Invalidity* of the Natural Faculties, some Members or certain Particles may be either maim'd and destitute of their Natural Use, or then (which is worse) be altogether irregular, defective, or Unnatural.

* *Loc. cit.*

LASTLY as to the *Place*, I mean the *WOMB*, in which the *Conception* is made; It ought not only to be *perpendicularly seated* in the *PELVIS*, or in a *direct line* from the *VAGINA* upwards, but also to be well conform'd and proportion'd: Otherways, as an ugly or unshapely exterior *FORM* or *MOULD* of *Wax* or *Clay*, produces a corresponding deformed *IMAGE* cast therein; so the *WOMB* may as effectually be the *Cause* of a *Deform'd* or *Monstrous BIRTH*. And moreover not only so, but the *WOMB* ought also to be in its due *Temperament* and *Natural State*, free of all *Distempers* and *Inconveniencies*, such as obdurate *GLANDS*, *ULCERS*, *CICATRICES*, &c. Otherways, as a *TREE* planted in *Stony Ground*, its *Root* cannot diffuse or spread it self round every way, but being cramp'd and oppress'd, it crooks and bends back; So it is with the *FOETUS* in the *WOMB*, if oppos'd and resisted by the *Constriction* or *Coarctation* of the *Place*, or by any inherent *Præternatural Substance*, its *MEMBERS* cannot possibly be articulately and distinctly form'd, much less can they attain their *Natural GROWTH* and *FIGURE*.

IN short from what is here said, I think, the *Notions* of such Men, as will have *MONSTERS*, only and immediately to proceed from a *Coition* with *BRUTES*, may evidently appear as *absurd* as they are verily *groundless* *. And for strengthening or backing of my *Authority*, I may add *Galen's* own Words †, saying, *Vel semen Humanum in Utero Equæ, vel Equinum in utero Muliebri, aut non admitti, aut admissum corrumpi*. Which is also farther confirm'd by Holy St. *Jerom*, saying, || *non minus absurdum est, Animal construi ex Equo & Homine, quàm Vitem Olive insertam, simul vinum & oleum proferre*. Which

* *Herc. Sax. P. 3. C. 29.*

† *Contra Pindarum lib. 3. de Uf. part. cap. 1.*

|| *Homiel. 7. super. caput 3. Epistolar. Pauli.*

Doltrine seems also most agreeable to *Truth*, in that there can be no *Affinity* or *Concord* betwixt these Specifically different *SEEDS*, neither in their *Natural Actions*, *Aliment*, *Maturation*, *Time*, or *Manner* of *Birth*, &c. to pass by all other *disconsonant* or *incongruous Circumstances*.

IN FINE therefore, for these *Reasons*, I believe Nothing of the many *fabulous Relations* extant, of the *Hippocentauri*, *Onocentauri*, *Minotauri*, &c. inhabiting the *LAND*, nor of the *Tritons*, *Nereids*, *Syrens*, &c. which are said to possess the *SEA*; tho' indeed both *St. Antony* *, and *St. Jerom* †, maintain the Existence of the *SATYRI* and *SYLVANI*: But be these Things as they will, I believe, that the *Production* of every *MONSTER*, concurs to the *Perfection* of the *UNIVERSE*, and that sometimes such *Prodigies*, or rather *Dæmonical Illusions*, may appear, as well as *Monstrous BIRTHS* happen, by the *Will* and *Pleasure* of the great *CREATOR*, who would thereby signify and portend something *extraordinary*, or more than *NATURAL* to us *Mortals*.

* *In vitâ suâ.*

† *Loc. cit.*





C H A P. VII.

Of various deformed CONCEPTIONS.

THE particular Description of *MONSTROUS CONCEPTIONS* in the preceding Chapter, leads me, of Course, to treat of *another Sort*; which I shall comprehend under the Title of *Deformed CONCEPTIONS*. This Sort happening almost in all Countries promiscuously, tho' in some more frequently than in others, becomes almost in all Parts Daily obvious to our Eyes, so that we need be at no great Pains to prove the Reality of deformed BIRTHS, but rather inquire into the Causes of such uncouth CONCEPTIONS.

IN short therefore as to these, if we only look back and reflect on the three preceding Chapters, we will find the Causes of the present Case very evident and sufficiently manifest, if not particularly included in the *Latter*: Wherefore I have only farther here to observe, that all such *Præternatural CONCEPTIONS*, degenerate from the *Natural*, in proportion to the *Prevalency* of their Cause or Causes; So that the Cause being less considerable in this, than in the foregoing Case, instead of a *MONSTROUS*, we have only a *deformed BIRTH*: Such as a *Scurf-Head*, a *discolour'd Skin*, an *ugly Visage*, *disagreeable Features*, *distorted Mouth*, *crooked Nose*, *Legs*, or *Arms*, *maim'd* in whole or in Part, *Tumours*, *Pustules*, or *Bubos* about the *Groins*, &c. Which, tho' these and such like *Accidents* may verily proceed from either of the fore-mentioned Causes; Yet I think, the most common and ordinary One, in all Countries, is an impure and unseasonable COPULATION: Such as is not only

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precisely forbid by the *Express Word* of God *, but also repugnant to right *Reason*, and even to common *Sense*.

FOR who can be so stupid as not to conceive, that this *Menstruous Contagion*, will naturally (tho' insensibly) creep into the BLOOD, invade the whole *Habit of the Body*, and tacitely infect the very *soundest Constitution*, even sometimes with the *Venercal Pox*, or perhaps with an *Elephantiasis*, or the *Leprosy* it self? Nor does this EVIL end always here, but such BIRTHS are also generally as perverse in the MIND, as they are *Heterogeneous* in the *Person*; for like BASTARDS of *Nature*, they are commonly denuded, or destitute of all her laudable *Gifts* and *Graces*, which others, her *Legitimate SONS*, are happily born with and enjoy in *Abundance*.

HENCE it is, that, if they become not altogether *Folt-Heads*, *Foolish*, or *Delirious*, they are most ordinarily otherways *Lewd*, *Vitious*, and *Licentious Persons*, if not also *envious Traducers*, and *crafty Cozeners* of Mankind: From hence likewise the *Italians* and *Germans* derive a memorable PROVERB, which they never forget upon dealing with such *Persons*, viz. to this purpose; *Take Care of Him whom God has marked*. For tho' some of Them, are capable of undertaking *Nothing* of any *Moment*, much less of accomplishing any laudable *Work*, NATURE it self thwarting their *Career* in every *Enterprize*, and the very STARS (as it were) concurring to their *Frustrations*: Yet others have subtil *WIT* enough to scrape together (*per Fas aut Nefas*) *Heaps* of contemptible *Dross*, much of affinity with their own vile *Substance*; which however, seldom prevents a base or ignominious CATASTROPHE to themselves, who are thus found established upon such a *præternatural BASIS* of *Popu-*
lar *Ignom.*

* *Levit.* 15 22, &c.

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IF then *these* be the direful *Consequences*, how unreasonably cruel are such *Parents*, who thus by Enterprising the Work of *PROCREATION* without humane Decency, and contrary to the very *Institution* of *NATURE*, involve their *Posterity*, in such miserable *Calamities*? But this sort of *BIRTHS*, I have also diligently observ'd, happens most frequently in *Holland*, and that chiefly for the *Reasons* and *Causes* mentioned in the foregoing Chapter. Which *Observation* leads me to the following *Matter of FACT*, which (without any intended *Reflection*, or *Reproach* upon any particular *Country*, or rather, as *this* would be, upon *Human Nature* it self) I shall ingenuously relate, not only to clear up the *MYSTERY* of a certain *Truth*, which I have found, to be controverted in this Place, and that even among some of the more *Learned* themselves; but also for *Morality* and *Instruction* sake to the Reader in particular, and for the common Good of *Mankind* in general, viz. —

THAT these *BIRTHS* in those *Parts*, are often attended and accompany'd with a *Monstrous* little *Animal*, the likest of any thing in Shape and Size to a *MOODIWARP*; having a hooked *Snout*, fiery sparkling *Eyes*, a long round *Neck*, and an acuminated short *Tail*, of an extraordinary *Agility* of *FEET*. At first sight of the *World's Light*, it commonly *Tells* and *Shrieks* fearfully; and seeking for a lurking *Hole*, runs up and down like a little *Demon*, which indeed I took it for, the first time I saw it, and that for none of the better Sort. Moreover —

THE following *accidental Passage* is so remarkable, that I cannot pass it by, in order to satisfy and convince others of this admirable *TRUTH*; Namely, that, not many Years ago, in coming from *Germany* over East and West *Friesland*, to *Holland*, I took Passage in the ordinary *Fare-Vessel*, from the City of *Harlingen* for *Amsterdam*, over what they call the *Zuyder-Zee*; Which is commonly reckon'd a *Voyage* of 10 or 12 Hours, tho' at this Time we happen'd to be near 36

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Hours on our *Passage*. Amongst the better Sort of the *Passengers*, who possess'd the *Cabine*, there happen'd to be a *Woman* big with *Child*, of a very creditable *Aspect*, who afterwards told me, that She was bound for *Amsterdam*, on purpose to buy some *Necessaries* for her *lying-in* at the easiest rate; when in the *interim*, the good *Provident Woman*, was taken all at once, aboard the *Ship*, with a sudden and surprizing *LABOUR*: Upon which occasion, in short I immediately lent her a *helping Hand*, and upon the *Membran's* giving way, this forementioned *ANIMAL* made its wonderful *Egrefs*; filling my *Ears* with dismal *SHRIEKS*, and my *Mind* with greater *CONFUSION*.

WHEN not immediately recollecting what I had either heard or read of this *MONSTER*, I could not help continuing in my *Surprize*, until I heard some of our *Accidental Company* call it *de Suyger*, as they went about to kill it: Upon which I immediately laid the *Woman* of a pretty plump *GIRL*; who, notwithstanding all this, had no *Deformity* upon it, save only many *dark, livid SPOTS* all over its *Body*; which I prognosticated might turn to a *Universal SCURF*. In the mean time I order'd the *Express'd Oil* of *ALMONDS* to be diligently us'd, as soon as we landed.

AFTERWARDS I had occasion to talk with some of the most *learned Men*, of the several famous *Universities* in these *Provinces* upon this *Head*; who ingenuously told me, that it was so common a Thing, among the *Sea-faring*, and *meaner sort of People*, that scarce ONE of these *Women* in *Three* escaped this kind of strange *BIRTH*; which my own small *Practice* among them afterwards also confirmed: Insomuch, that I always as much expected the Thing *de Suyger*, as the *CHILD* it self: And besides the *Women* in like manner, make a respective suitable *Preparation*, to receive it warmly, and throw it into the *Fire*; holding *Sheets* before the *Chimney*, that it may not get off;

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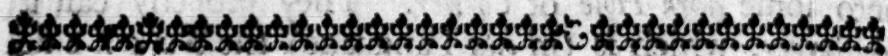
off; as it always endeavours to save it self, by getting into some *dark Hole* or *Corner*. They properly call it *de Suyger*, which is (in our Language) the *SUCKER*, because, like a *Leech*, it sucks up the *INFANT'S*, *Blood* and *Aliment*.

UPON this *Head*, and to this *Purpose*, I might produce the *Authorities* of fundry good *Writers*, but shall content my self here at present with ONE of the same *Nation*, viz. * The most Learned and Eminent *Levinus Lemnius*, who gives us a very remarkable and particular Account at large, of a certain *BIRTH*, which began with a *MONSTROUS MOLE*, succeeded by the *SUCKER*, and ended with the *Production* of an excarnificated *MALE-CHILD*.

THESE things then being so, and proceeding merely from the immediate *Reasons* above-mentioned, ought to serve for a memorable *Caution* to all *PARENTS*, that, in their conjugal *Duties*, they behave themselves orderly and decently, not like insatiable *BRUTES*; but, like rational *Men*, to the end that their *Families* may be preserved, and their *Persons* succeeded, not by an opprobrious *RACE*, but, by a *univocal Generation* of hopeful *CHILDREN*, Men of *Probity* and *Integrity* both in *BODY* and *MIND*.

* *Lib. 1. Cap. 8.*





C H A P. VIII.

Of Imaginary CONCEPTIONS.

TH E R E remains yet one Sort of *spurious* CONCEPTION, which happens without any *utile Help* or *Assistance*, merely by the Force of *Imaginary VENERY*: Especially among *Salacious Women*, a *Seminal Fluxion* may happen upon many different occasions; which joining and incorporating with the *MENSTRUOUS BLOOD*, may be so much fomented by the *Uterine Calidity*, and the other *Faculties* of the *WOMB*, that the *Rudiments* of an imperfect *ANIMAL* may be amassed and conceived. But——

AS the *Masculine SEED* (the *efficient Cause*) which ministers both *FORM* and *LIFE*, is wanting, it can assume neither of these Perfections: The *Maternal Matter* serving only to bring it to a rude indigested *Consistency*, or a confused fleshy *Substance* of a strange and uncommon *FIGURE*.

THIS in short, is no ways improbable, if we consider that *HENS*, without the *COCK*'s assistance, lay *Eggs*; however, of such a *Nature*, that whatever Pains the *HEN* is afterwards at to *sit* and brood upon them, the *Eggs* can never be animated so as to produce *CHICKENS*. Or, if we consider, that tho' *feminine Trees* or *Roots*, having of themselves less *Power* and *Strength*, as they are only imbued with a *frigid* and *infœcund Humidity*, may smile a little in their *SEASON*; yet, because of the natural *Deficiency* of *HEAT*, and their innate *Debility* or *Impotency*, they only yield an empty or imperfect *Rudiment* of

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of either *FRUIT* or *SEED*, unless, by the *Vicinity* and delectable *Conjunction* of the *MALE*, they participate of its *Fecundity*, as *Pliny* testifies * of the *PALM*.

AGREEABLE to this *Position*, the *Practical Observations* of many eminent *Physicians*, teach us, that *WOMEN* have and may conceive at this rate, without any *virile Energy* or *Concurrence*; of which *Dr. Burnet* † gives us a notable Instance, concerning a certain *Noble-Woman*, a *Matron* of undoubted *VIRTUE*, who some Years after her *Course of Nature* had alter'd, in the 56th of her Age, brought forth several fleshy *MOLES*, as he calls them, and that attended with a great *Flooding*, and the most severe *Pains of LABOUR*, as if in the *Case* of a *Natural BIRTH*. Again moreover —

DO we not know, in fine, that the *necessitous*, and such as suffer *Want*, may be refreshed purely by the *SAVOUR* of our *Dishes*? And that the *Hunger-starved* may be satiated merely by the *ODOURS* of our *Kitchens*? As possibly thus may the *marriagable GIRL*, but more readily however the *WIDOW*, fill her self with her own odd *IMAGINATION*; and being debarr'd the *Enjoyment* of her *PARAMOUR*, hug him tacitely in her *Bosom*, and embrace him heartily, however *absent*, in her *Mind*. Which, if frequently done, may occasion a *Collection* and *Commixture* of gross *Humours* in the *WOMB*; whence a *deformed Concretion*, or *shapeless MASS*, may be engendred, and that only by *Imaginary VENERY*. To which *Case* and *Purpose*, I think, *Virgil*, very pertinently alludes, || saying —

* *Lib. 3. Cap. 4.*

† *Thef. Med. pract. lib. II. Sect. 19. Sub-Sect. 3.*

|| *Georg. 3.*

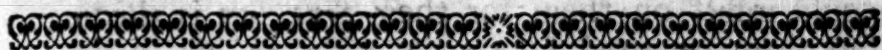
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*Scilicet ante omnes furor est insignis Equarum,
Continuòque avidis ubi subdita flamma Medullis,
Vere magis (quia vere calor redit ossibus) illæ
Ore omnes versæ in Zephyrum stant rupibus altis,
Exceptantque leves Auras, & sæpe sine ullis
Conjugiis vento gravidæ, mirabile dictu,
Diffugiunt.———*

AND thus at last having particularly, treated of all the distinct and different sorts of CONCEPTION, to which the *Woman* can be subject; I come now in the next place, to address my self to *HER*, who was never yet capable of any CONCEPTION; and that in the Chapter and Manner following, viz.



C H A P.



CHAP. IX.

Of the STERILITY or BARRENESS of WOMEN.

AS STERILITY is in it self a *Præternatural Faculty*, so I cannot but think, that, in the CLASS of *Præternatural Conceptions*, that of a NON-CONCEPTION may at last pertinently take place.

NOW I remember the Reader was referred to this Place, by Sect. II. Chap. 5. where I promised to expound the unsuccessful ACT of Copulation; as I there briefly did the *Reverse-Case*: And after having all a long thus far forward, safely conducted the Fertile or Fruitful WOMAN, thro' the different Trains and Consequences of the successful ACT, I have left Her in a safe Condition, together with the Dear PLEDGE of her Natural Fecundity; whilst in the next place, I come now to treat of the *Præternatural BARREN WOMAN*.

IN order to which, I FIRST observe, that the Jews, and almost all other Nations, deemed it the greatest MARK of Infamy imaginable, for a WOMAN, to yield no Children; as is evident from the Scriptures, how HAGAR, the fruitful Chamber-Maid, * despised SARAH, her barren Mistress, &c. But moreover —

SECONDLY, We may observe, that, upon every provoking Occasion, the LORD himself threatened them with this Curse; as one of the greatest INSTANCES of his heavy Displeasure, and One of

* Genes. 16, &c.

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the severest Judgments, that his VENGEANCE could inflict on them for their Sins, as is also manifest from repeated INSTANCES of Scripture, particularly from the Words of the Holy Prophet, saying, * They sowe the Wind, and shall reap the Whirlwind: Their Glory shall fly away from the WOMB: Their Root is dried up, they shall bear no Fruit, &c.

THIRDLY, We may easily conclude that, such a Sentence passing from the Mouth of the most high JUDGE, the Supreme Physician, and Omnipotent himself, could never be revers'd by the Art or Ingenuity of MAN: But as Christians have no Reason to suspect themselves to lay under this accursed Sentence, so they may well look nearer Home, and take a view of the many different mediate and immediate Causes of STERILITY or NON-CONCEPTION in them.

FOURTHLY, however, before I enter upon these, I would previously have it noted, that, sometimes the Fault, or Cause of the Woman's not conceiving, lies in the MAN; and may proceed from many diverse Diseases or Symptoms in him, as particularly mentioned, and treated of at large, † by the most Learned Sennertus, to which we refer the Curious; Because we have nothing to do with the MAN in this place: Wherefore that I may return to the WOMAN, I say —

THE immediate Causes of STERILITY in her, are manifest from the very Definition of CONCEPTION: Which, according to Galen, ‖ is nothing else, than a Comprehension of SEED in the Womb, for the Generation of Man. But here it may be requisite, to explain this general Term of Com-

* Hos. Chap. 8, and 9.

† Lib. 3. Part. 9. Sect. 1, and 2.

‖ L. 1. de Sem. cap. 4.

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prehension, which I would have understood to imply four particular Qualities of the WOMB, viz. *Attraction*, *Retention*, *Distribution*, and *Fomentation*. Hence it is that such Women must needs be BARREN, as cannot either attract the effused; or retain the attracted; or distribute and alterate the retain'd SEED through the Parts of the WOMB, and excite its latent Virtue to ACTION; or lastly, such as cannot duly foment and nourish the same SEED, when regularly distributed; and These, I think, are all the immediate Causes of BARRENNESS: As Those, for which the SEED either cannot be attracted, or retained, or distributed, or fomented, are the mediate Causes of STERILITY.

NOW, as to the FIRST of These then, the *Attraction*, or the *attractive Faculty*, may fail in its Duty two ways, viz. either because of its own Debility; or because of some praternatural Impediment. The Debility or Imbecillity of this Faculty may proceed either from a Defect of Spirits in the Seminal Vessels; or from either of the Intemperatures of the WOMB, whether natural or Adventitious: And Impediments may happen in Attraction many different ways, such as by a less'd or extinct Veneral Appetite; by the Woman's Aversion or Indifference to her MATE; by the perverse Affections of the Mind, such as Melancholly, Grief, Anger, Fear, &c. by Causes of the VAGINA, or Orifice of the WOMB; by a Coalescence, Ulcer, Membrane, Carnous or Scirrhus Substance, or any other kind of Tumours; as also by a Constriction, Distortion, or Compression of the ORIFICE; or at last by too much FAT, &c. *

SECONDLY, the Retentive Faculty may come short of its Duty three different ways; namely, either because of its own Imbecillity, or because of some Praternatural Impediments; or because of the Object it

* Hipp. 5. Aph. 46.

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self. The *Imbecillity* or *Impotency* of this Faculty may proceed either from the *Intemperature* of the WOMB; or from the Abundance of some slimy *Mucous Humour* in the same: And its *Impediments* may happen from a *Prolapsus*, an *Inflammation*, an immoderate *Flux*, the *Whites*, a *Gonorrhœa*, *Worms*, *Scirrhus*, or other *Tumours*, *Ulcers*, or the *Cicatrix* of an old *Sore* in the Body of the WOMB; as also from the *Amplitude* or *Laxity* of the *ORIFICE*, whether *Natural* or *Adventitious*: Which *Accident* frequently happens even to *Child-bearing Women*, sometimes by an *ABORTION*, sometimes by a difficult *BIRTH*, and sometimes also by the rude *Usage* of an ignorant *MIDWIFE*, that they can *never more Conceive*, until they be duly *Cured*: Again, the *Cause* may be in the *OBJECT*, or *SEED* it self; when it is either *impure*, *acid*, *vitious*, and disagreeable to the WOMB; or deprived of its natural *Heat* and *Spirits*.

THIRDLY, the *Distributive* or *Alterative Faculty* may be also impugned in its *Function*, 1st, by its own *Debility*, occasion'd by either of the *Diseases*, or *Intemperatures* above-mentioned; or 2dly, by the *cording Qualities* of the *Seminal Matter*; or 3dly, by some certain *Disproportion* betwixt that *Matter* and the WOMB it self: Since as all *SEEDS* do not answer alike in *one Field*, some requiring a *Pinguid* and *Loose Soil*, others a *Lean* and *Slender Ground*; so it is with the WOMB and the injected *SEED*: For, however fruitful the *One* may be, if the *other* be not of a proportionable *Fœcundity*, no *CONCEPTION* can possibly follow: Hence it is that many *Women* have been accounted *BARREN* in their first *Marriage*, who have had several *Children* to a *second Husband*. Again, as some *SEEDS* perish and are quite lost in *moist*, *clayish*, or *marshy Ground*, and others decay and are burnt up in an *Acrid*, *Sandy*, or *Gravelly Field*; So it is also with the *Human SEED*: For, in the too cold, or moist WOMB, it is extinguished, and

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and in the too *Hot* or *Dry* WOMB it is corrupted *.

FOURTHLY, the Fomentation, or the *Nutritive Faculty* may be deficient in its Office of *attracting sufficient Aliment* to foment and nourish the SEED; which however, is most commonly occasion'd by Want, or Scarcity of *Blood* in the WOMB, proceeding from *perverse Evacuations*, *Penury* or *Necessity*, an *Atrophia*, *Consumption*, or the like; or then, in fine, by the *Impurity*, or *vicious quality* of the BLOOD.

NOW These, I think, are all the most common, as well as the most prevalent *Causes* of STERILITY: Tho', according to *Joannes Anglicus*, there are also several *external Causes* †; which however, I shall here pass by in Silence; lest, as some good *Women* are at great Pains to rectify their *barren Wombs*, others should thereby take Sinistrous Measures to suppress their FERTILITY. And in this CLASS may be included the *Medicines* call'd by the *Greeks* *στυλναι*, because they are endued with certain *occult Qualities*, which extinguish the SEED and obstruct the CONCEPTION ||.

HAVING thus defin'd the mediate and immediate *Causes* of reputed STERILITY, I can scarce, because of either of *these*, call a *Woman* really BARREN; Since I have known some of the most difficult of *these Cases* to have been duly cur'd, and diverse *Women* to have conceiv'd, after many Years BARRENNES, and prov'd the Joyful MOTHERS of hopeful *Children*; of which I could give some signal *Instances*, if I took Pleasure in swelling this *Work*: Hence it is, that the great Philosopher and Physician, *Daniel Sennertus*, only dissuades the *Ingenuous* from undertaking this *Cure*, in the Cases of vicious

* *Hipp. 5. Aph. 62.*

† *Cap. de Sterilit.*

|| *Senert. L. 4. P. 2. S. 4. C. 2.*

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Hereditary Dispositions, venenated Constitutions, or other heavy Diseases *.

MOREOVER, we find that the very best of the *Ancients* have been at great Pains, in distinguishing exactly the *curable*, from the *incurable* BARREN WOMB: Yea *Hippocrates, Galen, &c.* have given certain Directions, founded upon the solid Truths of their Immense Knowledge and Heavenly Wisdom, to try and discover the *One* from the *Other*; as they have also taught us to Judge of every particular Cause affecting the *Curable* WOMB. But to facilitate these Nice Discoveries, I shall subjoin some few *Diagnostick Signs*; because except we know the particular Cause, we can never pretend to remove it, and without removing the Cause, the Effect can never cease, or be cured. Not but that —

I KNOW, that the ingenious *Physician*, undertaking this Cure, requires none of my *Instructions*; which notwithstanding, I hope, He will allow me to prosecute my Method in treating of this Case, as I have done of some others; and that the rather, considering it is generally well known, that sometimes a Fool has put a Wise Man in the right way. Where I heartily wish that some Word may drop from my Pen, that may prove instrumental to wipe off the imputed Blemishes, and promote the real Glory of WOMEN; And this I could wish the more, because I am fully convinced that many are ignominiously branded with BARRENNESS, without any sufficient Cause: Insomuch, that I verily believe, that, upon an ingenuous Tryal, not one real or incurable BARREN WOMB, would be found in Ten of those, which are this Day so reputed. But à propos —

As I have reduced all the Causes of STERILITY to the above said four CLASSES, so I shall reduce the Diagnosticks to the same number; and thereby

* *Loc. Cit.*

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demonstrate how it may be easily discover'd, whether the FAULT lies in the *Attractive, Retentive, Alterative*, or in the *Nutritive Faculty* of the WOMB; and how every particular Cause in any of these may be plainly distinguished, &c. In order to which, then —

TOUCHING the FIRST, *inquirendum est primò, an ad Venerem apta sit Fœmina, & quidem an Veneris Appetitum habeat, & an Membrum virile rectè admittere possit. Horum enim si alterum desit, Causa, cur non concipiat, procul dubio in Attractrice hæret; ut etiam, si statim à Coitu, aut post breve Intervallum semen effluat.* I say, These are the infallible MARKS of a læs'd *Attractive Power*, which also denote some Fault of the WOMB, such as an oblique Situation, a Compression of the EPI-PLOON or CAWL, or some obdurate Substance, impeding the SEED to reach the Cavity of the WOMB: The Particular of which is easily to be discover'd; the Situation by the ingenious TOUCH; the Compression of the OMENTUM or EPI-PLOON happens only to Fat Women; the Substance or Tumour (of whatsoever kind) if not found in the Passage, lodges in the WOMB it self.

• SECONDLY, If the Party labours under any of the aforesaid Causes debilitating or impeding the Retentive POWER; some are manifest to the Woman her self; as in the Cases of any immoderate Flux, a slimy or illusive Evacuation, a Gonorrhœa, the Whites, a Falling of the WOMB, &c. others are obvious to the MIDWIFE'S Touch, as in the Case of Tumours, Ulcers, &c. and in Case of either Intemperature, Dropsy, Inflammation, Worms, &c. all such are abundantly evident to the Physician, after duly examining, and considerately weighing the Disposition or Temperature of the whole Body in general, and of the WOMB in particular.

THIRDLY, if the *Alterative or altering Faculty* be læs'd or impotent, then, after some Days Retention, an Effluxion of the SEED happens, and that either

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because of some *Intemperature* of the WOMB; or of some discording *Quality* in the SEEDS, or in the WOMB, as above; or lastly, because of a *Want* or *Scarcity* of BLOOD for forming the FOETUS. As to the *Intemperatures*, I have already observ'd, that, they may be readily distinguished by the ingenious *Physician*; But the *Disproportion* betwixt the commixed SEEDS, or between these and the WOMB, how much, and in what they may differ one from another, is not so easily known; because this *Fault* may be as much in the MAN, or perhaps more, than in the WOMAN, as has been already hinted: In this *Case*, the *Physician* is to weigh and consider well the *Temperatures* of the whole Body, and especially that of the *Genital Parts* of both the MAN and the WIFE; and as much as possible, to reduce that of the One, to the more convenient *Temperature* of the Other, * correct- ing Both in what may be found requisite; according to the Direction of *Lucretius*, in these Verses:

“ Usq; adeo magni refert, ut Semina possint

“ Seminibus commisceri generaliter apta,

“ Crassaq; conveniunt liquidis, & liquida crassis.

FOURTHLY and lastly, if the *Nutritive Faculty* be faulty, the *Case* is plain and manifest; since it generally proceeds from one or more of the following *Causes*, viz. from *Want* or *Penury*; a *Pining away* or *Consumption*; immoderate *Hæmorrhagies*, whether happening by *Superiour* or *Inferiour Parts*; hard *Labour*; too much *Fat*, or too much *Leanness*: As the same may also happen from an *Obstruction* or *Suppression* of the MENSTRUOUS COURSE; or from its vicious or impure *Quality*; and, in fine, from any severe *Symptom* or *Disease* whatsoever.

* Galen. 5. Aph. 61.

THUS

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THUS having discover'd the genuine and precise *Causes* of STERILITY, the *Cure* is as good as half perfected; but that it may be altogether and effectually perform'd, the next thing requisite in this place, would be to treat of every *Cause* and its respective *Cure* particularly; * but as these do chiefly belong to the *Diseases* of the PUDENDUM, VAGINA, and WOMB; which I have already declin'd entering upon at this time, for the *Reasons* mentioned in Sect. VI. Chap. VI. I shall here only add in *general Terms*, that tho' the barren WOMB is justly compar'd to an insipid, ungrateful, or unfruitful FIELD, because neither the *one* nor the *other* produces any thing *Good* of it self: Yet as we see the barren *Lands* improved and become fruitful by the *Industry* of the *Husband-Man*; and even wild *Roots* and barren *Trees* in time produce plentifully by the *Care* and *Diligence* of the *Gardener*; So the Heavenly ART of *Physick* exerts it self strenuously in improving the barren WOMB; miraculously supplying the *Defects*, and regularly correcting the *Defaults* of NATURE; restoring or replenishing it with a desirable and grateful *Fœcundity*: I say, as convenient DUNG comforts the *sterile Field*, so does proper *Physick* the barren WOMB; It elevates the low and renovates the exhal'd *Spirits*; It vanquishes the *Imbecillity*, and corroborates the *Nerves*; It reduces the languid *Heat*, and all the *Intemperatures* of the *genital Parts*, to their respective, due and natural *Temperaments*; removing naturally all *Obstructions*, and wonderfully curing all the *Causes* hindering or withstanding the *Procreation* of *Humane RACE*.

* *Here. Sax. Pralec. Pract. P. 3.*

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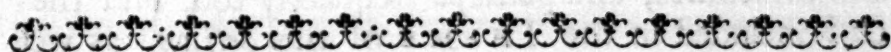
AND, in fine, because proper DIET is of great Service to alter the *elementary Qualities*, and to convert the *Bad* into a *Good Habit* of Body; such *Women* are to be carefully directed to such a *Judicious Regimen* of DIET and otherways, as is most efficacious and convenient for their Purpose, either of *Health* or *Generation*. Now having so far prosecuted my Design, with respect to the *Barren*, as well as the *Fruitful WOMAN*; I, at present, take Leave of *Both*, and come, in the next place, to address my self to the *WIDOW*.



SECT.



S E C T. VIII.



C H A P. I.

Of the Symptoms incident to the State of
W I D O W - H O O D.

AS the WIDOW has in her former Days, tasted both of the *Sweets* and the *Sours* of the MAIDEN, as well as of the *marry'd State*; so she is now also subject to all the *Affections* of the *One*, as well as to some of the *Other*. Whatever she may judge of her self, and however she may, in some measure, be liberated from the *Solicitudes* of the FIRST, and freed from the *Anxieties* of the *other*; yet she is still so far from being exempted from the *Morbifick Consequences* of the Natural Imbecillity of her tender SEX; that she now, tho' in different *Respects* and various *Cases*, participates of the *Indispositions* of BOTH.

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HOWEVER yet, notwithstanding this Variety of *Afflictions*, to which the *WIDOW* is actually expos'd; I confess, that, I know not so much as *one Disease* or *Symptom*, which is singularly peculiar to *Her self*; that is, but what either the *MAIDEN* or the *WIFE* may be lyable to, as well as the *WIDOW*: Tho', in the mean time, I must also acknowledge, that, *Those* which I am now about to touch upon, may however, be justly esteem'd to be more familiar to *Her*, than to either of *These*, as will by and by more evidently appear.

UPON which Consideration, I hope the following *Heads* may here pertinently take place; not but that the *others*, I mean the *MAID* and the *WIFE*, may also sometimes, and perhaps frequently too, find their *Case* included in the *THEME* of this *Section*, as well as the *WIDOW* *Her self*, according to the *Diversity* of their *Circumstances*.

FOR these *Reasons*, I shall begin with *That*, from which none of the *Three*, that is, neither the *MAID*, nor the *WIFE*, nor the *WIDOW*, can altogether plead Exemption; which notwithstanding, according to my best Judgment, is more immediately the particular *Root* and *Source* of the most, if not of all, the *WIDOW's Distempers*; which however, that I may not too much over-run my Design of *Brevity*, I shall briefly comprehend under *One* or *Two Heads*, viz.——





C H A P. II.

Of the HYSTERICK PASSION.

WELL might the excellent *Democritus* write to his *Scholar*, the far more excelling *Hippocrates*, that the WOMB is the *Source of Six Hundred Grievs*, and the *Spring of innumerable Sorrows to the WOMAN*: Because of the manifest *Sympathy* or *Affinity*, which the WOMB has with almost all the other *Parts* of the Body. And as we may reasonably conclude from such an *Affinity*, that these *Symptoms* must needs be both *Numerous* and *Different* in Kind; so I think, for the same Reason, they may be *All* pertinently comprehended under the *General Title of Hysterick Maladies*.

BUT before we enter upon the Particulars of these *Uterine Affections*, it may be first requisite to make out the *Reality* of this *Affinity* or *Consent*; which will be no difficult Matter, when we consider FIRST, the *three Principles*, in which the same consists, *viz.* in a *Similitude of Parts*; in a *Vicinity of Parts*; and in a *Connexion of Vessels*. SECONDLY, how by these, as the WOMB is a *Membranous Substance*, it has a *Substantial Affinity* with the MEMBRANES; And by its *Vicinity*, with the BLADDER, RECTUM, and INTESTINES: As by its *Veins, Arteries, and Nerves*, it has with almost all the other *Parts* of the Body; such as with the BRAIN, by *Veins* and *Arteries*, as well as by the NERVES and Spinal MEMBRANES; with the HEART, by *Arteries*; with the LIVER, by *Veins*; with the STOMACH, by certain *Anastomoses*, betwixt the *Veins* of the WOMB, and those of the *Mesentery*, as well as by *Arteries*; with

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with the SPLEEN by *Arteries*; with the BREASTS, partly by *Veins*, * and partly by *Nerves*, &c.

HENCE it is that I can scarce find any *Part* of the Body, which may not be affected by the *Indispositions* of the WOMB; the Heart, the Diaphragm, the Head, the Brain, and consequently all the *Organs* of Sense and Motion, the Liver, the Spleen, the Ventricle, the Mesentery, the Belly, the Bladder, the Rectum, the Back, the Loins, the Thighs, the Legs, the Arms, &c. All which *Parts* are from thence subject to innumerable various *Symptoms*, which commonly come and go by *Periods*, after the manner of *Convulsive*, or *Epileptick FITS*, to which the HYSTERICAL have also a very near Relation; in that the *Circulation* and *Recourse* of all the *Three*, and some more such, *Distempers* agree exactly, sometimes with the *Course* of the MOON, and SUN, and sometimes with the very *Motion* of the SEA; and as these vary, so the *FITS* of either *Affection* come on quicker or slower †.

THESE Things are also most Judiciously made out by the excellent Dr. Mead, saying, that, the New and Full Moon being of equal Power, this sort of Distempers sometimes reign in the one, and sometimes in the other, as the Body happens to be more or less fitted and adapted to receive the INFLUENCE; and as the abounding HUMOURS are more fitted for this, than that Period of the PLANET ||. And the same Author of great Experience, gives us an Account of a certain BOY of a Year old, who every Flood-Tide, was taken with *Convulsive FITS*, and every Ebb came to himself again *. Which Influence of the SEA, no doubt depends upon the MOON'S ap-

* Hipp. 5. Aph. 37, 38, and 50. Vesal. L. 5. C. 5.

† Tulpius Observ. Medic. lib. 1. cap. 12. and lib. 2. cap. 43.

|| De Imper. Sol. & Lun. Cap. 2.

* Ibidem.

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proaching our *Vertical Point*, or that directly opposite, as the *Flood* encreases and comes to its *Height*. Moreover again,——

CONSIDERING the WOMB, not only as the *Center*, in which the vitious *Humours* are accumulated from all the other *Parts*, but also as the PUMP of the *Body*, we may readily conclude that as long as it regularly ejects the *Menstruous Blood*, it does at the same time duly evacuate together with it, all those *Humours* of whatsoever sort they be: Whereas we may easily conceive that whatever obstructs or impedes the WOMB in any of its natural *Functions*, may occasion various *Symptoms* to the *Woman*: However the most of these, as well as the most dangerous, take their *Origin* from the *Retention* of the SEED and the *suppression* of the MENSTRUUM.

THE *Menstruous Blood* flowing in a natural Course to the *Uterine Veins*, when its *Passage* is so obstructed, that it cannot break forth; whether in VIRGINS, because of the *Astriction* of the ORIFICES; or in WIDOWS, because of the *Thickness* of the BLOOD, or of any other gross viscid *Humour*; in these Cases, it must of course regorge thro' the *Branches* of the VENA CAVA and the great ARTERY, to the *Head*, *Heart*, *Liver*, and *Veins* of the *Midriff*; whence of Consequence proceed various *Symptoms* in all these and their dependent *Parts*: Which notwithstanding, I take the too long retain'd SEED to occasion the more dangerous and severe *Symptoms* to the WOMAN.

BUT in Case of either of These, namely, either the *Seminal*, or the *Menstruous Matter*, beginning to corrupt, and consequently to acquire malignant *Qualities*, then they produce divers most severe and dreadful *Symptoms*; and that not only in different PATIENTS, but also sometimes in one and the same *Woman*; and not only at different Times, but also sometimes at one and the same Time: However these Things always happen, according to the different Quantity

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Quantity and Quality of the corrupted HUMOURS, as well as according to the *Constitution* of the WOMEN, in which the *Corruption* succeeds. Again more particularly —

IF the Malignant *Vapours* arising hence, penetrate to the *Heart*, (the principal *Organ* of LIFE, as well as of the *Circulation* of the BLOOD) I would observe, that, they occasion vellicating *Palpitations*, as also a *Dejection* of *Spirits*, and *Anxiety* of *Mind*, attended with frequent LYPOTHYMIES and SYNCOPES: If to the *Diaphragm* and *Lungs*, a *Difficulty* of BREATHING, attended (as it were) with *Suffocations* or *Strangulations*.

IF the MATTER ascends to the HEAD, and diffuse it self thro' the *external Parts*, diverse grievous PAINS assail the *Woman*, and that very differently; insomuch, that, sometimes the whole HEAD is (as it were) tortured, and sometimes but in Part; sometimes on the *right*, and sometimes on the *left Side*; sometimes in the *hind Part* of the HEAD, or CROWN, and sometimes in the *Fore-Head* or about the *Eyes*: Whereas if it tend to the BRAIN, and distribute it self among the ORGANS of *Sense* and *Motion*, both the internal and external *Senses* must needs suffer accordingly; upon which the poor PATIENT is not only taken with an APHONIA for *Want* of *Speech*, but also with a *Helpless* or *Senseless* *Stupidity*; and moreover, not only seiz'd with a *Resolution* or *Debility* of HANDS and FEET, but also with *Trembling* and *Convulsive Fits*,

IF the same ascends to the LIVER, the whole *Habit* or *Constitution* of the BODY is perverted: For as the *vitious Humours* are easily communicated from the WOMEN by the *Veins* to the LIVER, so the affected LIVER again readily diffuses its *Infection* by the *Veins* to the whole BODY. If to the SPLEEN and MESENTRY, *Murmurings*, *Pains* and *Torments* arise in the BELLY; which are commonly attended with a *Pain* in the left SIDE and left BREAST,

extending

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extending it self to the J U G U L U M, or fore-part of the N E C K, Difficulty of *Breathing*, frequent *Belchings*, a ficcid bound *Belly*, and all the other *Symptoms* which usually are the *Concomitants* of the *Hypocondriack Affection*.

I F to the V E N T R I C L E, thence proceed *Fastidy*, *Pica*, *Vomitings*, *Pains* and *Gnawings* of the S T O M A C H, *Sobblings*, *Yawnings*, *Belchings*, &c. But, and if the said M A T T E R distributes it self thro' the whole *Circuit* of the B O D Y, then the P A T I E N T is frequently seiz'd, sometimes with a sudden *red*, and sometimes with a *pale Colour*; as also sometimes with a *sudden Heat*, and *Ardour* in her F A C E, which she commonly perceives or feels to vanish and go off as suddenly: Again she is sometimes also taken with *sudden Cold*, and sometimes with as *sudden hot Fits*.

F R O M all which, it evidently appears, how justly *Galen* says *, that the *Hysterick Passion* (under one Appellation) comprehends innumerable various S Y M P T O M S: Even so many, that at least (I think) they cannot be possibly comprehended in this *Volume*, which extorts another *Apology* from me in this Place; namely and plainly, that as I have no Ambition to be accounted any extraordinary P E R S O N of great *Learning* or *Reading*; so I far less desire to set up or give my self out for O N E of *Universal Practice* or *Experience*: And as at the *Beginning*, I only design'd this B O O K for the immediate *Service* of M I D W I V E S, and the common Good of W O M E N and their C H I L D R E N, the *Poor*, I mean in general, as well as the *Rich*; So I am yet resolv'd, rather, to stifle or restrain my *Inclinations* for the present time, and suppress what might be otherways pertinently added on these *Subjects*, than to put it out of the reach of the *Purchase* of either of T H O S E. I say, for these reasons, I shall not undertake at this time to

* *Lib. 6. de loc. aff. c. 3.*

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enter upon every particular *Head* or *Branch* of the *HYSTERICKS*; only that I may not be censur'd as *Churlish* or *Peevish* to the more delicate *LADIES*, and tenderly constituted *Women*, who always labour and suffer most under these *Distempers*, I shall however yet endeavour to discuss particularly the most *dangerous*, as well as the most *common Case*, belonging to this general *TOPICK*; and not only so, but, according to my *Ability*, I shall also endeavour in it, if possible in a few words, to include and comprehend all the rest of these *Female Indispositions*: And that to the *Purpose*, and under the *Title*, following, *viz.* —



C H A P. III.

Of the Strangulation of the W O M B.

THE preceding Chapter contains a general Account of the sundry various *Hysterick Passions*, together with their respective *SYMPTOMS*, as they affect the chief and Principal *Parts* of the *BODY*; whence I might descend to a great *Variety* of *particulars*; but as neither my present *Time* nor *Design* will permit my entring upon *These* in this place, I shall content my self with treating of *This ONE*; which as it is the chief and most dangerous of all the *Uterine Affections*, so 'tis the most *Universal* and *Common*.

IT comprehends, in short, many various severe, and even wonderful *SYMPTOMS* in it self; whence I conclude, that, he who sufficiently understands the *present Case* or *Condition*, may easily comprehend all the other *Circumstances*, belonging to the foregoing *general Head*; Since with whatever difference of *Symptoms*, or *Diagnostick Signs*, they may appear, the *Causes* and *Effects*

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Effects are originally of the same Nature: For This is the very Affection which Galen * call'd the *πνιξ ὑστερική*, that is, the *Hysterick Passion*, and he might as well have said the *grand Hysterick Passion*: The Latins call it *Strangulatio*, or *Suffocatio*, or *Præfocatio Uterina*; because in the Fit, the Woman seems to be Suffocated or Strangled by the WOMB. But to the Purpose,——

HOWEVER variously and copiously the Ancients have defin'd this EVIL, I think the few following Words, may properly explain it, viz. This Suffocation is a Distemper of all the Natural, Vital, and Animal Actions, proceeding many different ways, from an ill or disaffected WOMB.

I say many different ways, according to the many different Sorts of the AFFECTION; because One is, when the SYMPTOMS of the les'd Natural Faculty only appear; in which the PATIENT labours under Inflations, and frequent Rumblings of the BELLY, Murmurings, Belchings, Pains of the STOMACH, Anxiety, Uneasiness, and sometimes Vomitings. Another different AFFECTION is, when the vital Faculty is les'd or indisposed; in which the PATIENT is not only taken with Heart-Beatings, but also with Faintings and Swooning Fits, with a small, frequent, and unequal PULSE. A Third is when the Animal Faculty is les'd or disaffected, which may happen many ways; and in this Condition the WOMAN is depriv'd of Motion and all external Sense; however she retains the principal Functions, together with her PULSE and BREATH.

AGAIN, farther yet, there is another Sort of this Hysterick AFFECTION, in which the Motion is deprav'd; turning to various CONVULSIONS of the Legs, Arms, Teeth, Lips, Eyes, and so of the whole Body. As also moreover, there is still ONE, or a

* Lib. 6. de loc. aff. cap. 5.

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Fifth different Sort of this *SUPFOCATION*, in which all the *Faculties of Life* are seemingly abolished; so far, that (according to common Sense and Apprehension) the *PATIENT* differs in Nothing from a *dead Person*. Hence it has often happen'd, that such *Women* (upon a mistake) have been imprudently buried (for *DEAD*,) and sometimes had the good Fortune to return from their *Graves* to their *Houses* again; whereof many learned *Authors* give us remarkable *Instances* *.

BUT if it should be ask'd, in short, how it is possible for the *WOMAN* to *live*, after she has lost both her *PULSE* and her *BREATH*? I can only refer the Curious to *Galen*, who has fully answer'd that *Question* † (according also to the Sentiment of *Heraclydes*) viz.— That tho', the Refrigeration of the whole *Body*, and its principal *Parts*, is so great as to intercept both the *Pulse* and the *Breath*; Yet the *Woman*, no less than other *Animals*, such as *Snails* and others of that kind, which live in strict obscurity, may have *Transpiration* sufficient, thro' the whole *Circuit* of the *Body*, to defend *LIFE* ||.

IF so, then, that there are so many different *Sorts* of *UTERINE STRANGULATIONS*, there must also (of Consequence) be as many peculiar *Causes*: Which, tho' all take *Origin* from the *WOMB*, yet do not arise to this Pitch, unless two other *Causes* concur with it. *VIZ.* *ONE* from the *Part affected*; *ANOTHER* from the *Passages*, thro' which the *WOMB* communicates this *AFFECTION* to it.

* *Alex. Bened. Praet. lib. 10. cap. 10. Parvus lib. 24. cap. 19. &c.*

† *Lib. 6. de loc. aff. cap. 5.*

|| *Nic. Rocheus lib. de morb. mulieb. cap. 4. Mercurialis lib. 4. de morb. mul. cap. ult. Albertin Bottonus lib. de morb. Mul. cap. 43, &c.*

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But in short, the *principal immediate Causes* are *THREE* * viz. *retain'd Menstruous Blood, vitiated Seed, and putrid Humours, or corrupted Matter, contain'd in any part of the WOMB*; which immediate, and concurring *Causes*, I come now to Speak to, viz. —

AS to the *FIRST* then, I think the *retain'd BLOOD*, is not sufficient of it self to induce this *AFFECTION*, because we know, many to be free from it, who yet labour under the *suppress'd MENSTRUUA*; wherefore the *Imbecillity* of the *Principal Parts* admitting the *HUMOURS*, must concur with the *Latitude* of the *Passages*, thro' which the *BLOOD* is communicated to them: Which *Three* conspiring together, the *SUFFOCATION* of course succeeds with Aggravation.

IF this *BLOOD* flows thro' the *Veins* and *Arteries*, into the *HEART*, it occasions a *SYNCOPE*, which is a most severe *Affection*.

IF it ascends into the *BRAIN*, it occasions various *Symptoms* according to the *Quality* of the *BLOOD*, viz. — If it is *Pituitous*, it induces a *SUFFOCATION* with *SLEEP*, resembling a *LETHARGY*: If it be *Bilious*, the *AFFECTION* is most furious, and the *PATIENT* is (as it were) almost *Mad*, tearing her self, pulling her *Hair*, renting her *Cloaths*, &c. If the *BLOOD* be *sweet*, she only fancies *AMOURS*, and meditates upon *pleasing CHIMERAS*: As, in fine, if *Melancholick*, it seizes her with a *Sadness* of *HEART*, and *Dejection* of *MIND*.

BUT as to the *SECOND Cause*, the *retain'd SEED* induces not only *These*, but more grievous *Symptoms*, since as soon as it is *corrupted* and *refrigerated*, it becomes the worst of *POYSON* †: And as it

* *Senert. lib. 4. P. 2. S. 3. C. 4. Rod. a Castro. lib. 2. S. 1. C. 1. Herc. Sax. P. 3. Cap. 27.*

† *Gal. lib. 6. de loc. aff. c. 5.*

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reaches the principal debilitated *Parts*, it draws on the most dangerous sort of *SUFFOCATIONS*; in which the *PATIENT* lies for *Dead*, the whole *BODY* being extremely refrigerated, or benumb'd by this *venenated Matter*. Which Accident however may happen promiscuously to *all Women*, abounding with such *morbifick Contents* in the *WOMB*, as sometimes falls out to *MAIDS*, but more commonly to *WIDOWS*, whose *Bodies* as well as *WOMBS* abound with pituitous *HUMOURS*; as also sometimes to *Pregnant Women* of *Cacochymical Habits*, and to *Puerperial Women* not *cleansing* sufficiently.

I know by the way, that some modern *Writers* define the *Case* otherways, and will have *MEN* to be also lyable to the same *Distemper*, which they alledge proceeds chiefly from the *Blood* and *Spirits*: But the *Reason* why I think they are exempted from it, at least from its *Severities*, is because, what they lose in *Nocturnal Pollutions* or otherways, is always ejected or thrown *without Doors*; whereas what the other *SEX* so emits, may be still retain'd *within*; and consequently by a long *Detention* there, may be converted into *VENOM*, of a *Poysonous Humour*.

HOWEVER, this happens more readily and frequently to *WIDOWS*, than to *VIRGINS*; because in the *one*, the *Passages* are not only dilated, but also Nature is accustomed to such *Emissions*, as the other is yet wholly a *Stranger* to. Moreover—

AGAIN, this *AFFECTION* may also proceed from too great an *abundance* of *SEED* in those, call'd the *Seminal Vessels*; tho' not to such a dangerous Degree: In which *Case*, if the *SEED* be *Acrimonious*, a *Convulsion* may happen; if otherways, the *PATIENT* seems only to faint and fall away, with a sort of a grateful *Indulgence*, without any great Change of *Countenance*, or Alteration of *PULSE*; tho' she often continues with her *Eyes* shut, *Starting* and *Wakening* (as it were) frequently: And as upon returning to herself, she falls *a-sighing*, so a little after, the *SYMPTOM* recurs again.

FINALLY,

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FINALLY, as to the *third Cause*, Supposing this AFFECTION to seize *Women*, who not only Purge regularly, but are also satiated with *Virile Conversation*; or, as it sometimes happens, to take *Old Women*: In these *Cases*, the *Cause* is undoubtedly very different from those mentioned; and proceeds either from *Winds*, *Vapours*, or putrid and corrupted *Humours*, contain'd in the WOMB, and communicated by various *Passages*, to the HEART and BRAIN: And this *Corruption* may readily succeed in the WOMB, because, as it is a part very different from any other of the BODY, endued with peculiar *Faculties*, so if it be not well disposed, the vitious *Humours* may also corrupt in it, after a peculiar manner; if not in its own *Cavity*, in the *Uterine Vessels*, as most frequently happens.

UPON which, I observe that, if these *Winds* or *Vapours* are communicated to the HEART, thro' the *Veins* and *Arteries*, the SUFFOCATION happens with *Palpitation*: If to the BRAIN, with a *Vertigo*, a *Tingling of the Ears*, and a *Suffusion* from the *Phantasms of the Eyes*: Whereas, if the deprav'd *Humours* or *Vapours*, ascend there, thro' the *Nerves*, various *Convulsions* happen; especially if the BRAIN abounds also with *frigid Humours*. And these, in short, according to the fore-said *Authorities*, are all the *Proximate* and *immediate Causes* of the HYSTERICK PASSION.

HENCE I come now to touch upon the *mediate Causes* of the same *Distemper*, which may be easily conceiv'd by any who understands those of the suppressed MENSTRUUM, GONORRHEA, &c. which *Cases* I can by no means enter upon at this Time, for the reasons mentioned in the last preceding Chapter.

BUT from what is said (I hope) this *Uterine STRANGULATION*, together with all its Differences, may be easily distinguished by the ingenious Reader. However yet, because all its different Sorts have some degree of *Affinity*, with other diverse *Symptoms*, which no ways proceed from the WOMB;

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I come now to propose some SIGNS of *Distinction*, first in *general*, and next in *particular*, viz. —

THE *general* SIGNS then are *Three*, by which I think, the H Y S T E R I C K may be readily distinguished from all other *Affections*; namely, —

I. IT is a *Muliebrian Disease*, and that only familiar to some of the more *delicate Women*: When therefore we know, from the P A T I E N T herself, or from those about her, that she is obnoxious to this *Affection*; the H Y S T E R I C Symptoms also appearing, we need not suspect any other *Distemper*. II. *Hysterical Women* complain frequently of their W O M B S being ill-disposed, and out of order. As, III. They are most commonly helped and freed from the P A R O X Y S M, by holding *Fatids* to the N o s e, and *Suaveolents* to the P U D E N D U M; which holds good in no other *Affection*. But more particularly —

THIS *Distemper* differs from a S Y N C O P E, in that, a S Y N C O P E is *precipitant*, and seizes the P A T I E N T all at once, tho' 'tis but of short *Duration*; Whereas in *this*, some evident SIGNS of an approaching *Paroxysm* always precede, and the Evil continues sometimes for several Hours and perhaps Days: In *that*, the P U L S E is quickly abolish'd, or at least seemingly *ceases*; in *this*, it remains, however *small*, except in the aforementioned extreme F I T: In *that* of a S Y N C O P E, cold *Sweats* appear, and the *Countenance* changes *pale*; and when the H E A R T is severely affected, it may be probably conjoin'd with the H Y S T E R I C K *Affection*.

NOW *This Distemper* differs also from an E P I L E P S Y: For in *That* the *Convulsive Motions* are not always join'd with it, or if they be, they are not so *universal*, affecting only *one* or *other Member*: In E P I L E P T I C K S, the P U L S E is greater than ordinary; but in H Y S T E R I C K S, it is the *Reverse*: In *that* the P A T I E N T *foams at the Mouth*, and loses the principal *Functions* of Life, especially the *Memory*; in *this* they *foam not*, neither commonly lose any *internal Sense*;

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Sense; but only awake like *those* who have been asleep.

THIS *Affection* differs again from the APOPLEXY, in that the PARTS are not so much *affected*, nor their feeling so much abolished; in that there is no continual *Snoaring*, and the PULSE is only diminished and depraved, which in APOPLECTICKS most commonly remains entire: In short, the *one* is preceded, as well as accompany'd with diverse *Symptoms*; whereas the *other* assails the PATIENT suddenly, without any previous Notice or *Signification*.

AGAIN the HYSTERICKS differ from a LETHARGY; in that *This* is attended with a FEVER; *That* not at all: In *This* the PULSE is raised higher and is stronger; in *That* it falls always lower, and is weaker.

MOREOVER, there are diverse *Experiments*, mentioned by *Authors*, to distinguish a PATIENT in the extreme FIT of this *Passion*, from a Person actually DEAD: Such as *Lint*, *Feathers*, or *burnt Paper* being held to the MOUTH; if moved, the PATIENT *breathes*. A *Glass of Water* being set upon the BREAST; if stirred, there is some *Motion* and *Dilatation* still in the BREAST. Or, in fine, a *Looking-Glass* well wiped, being held to their MOUTHS, if infected, the PATIENT is still and certainly *alive*.

HOWEVER, all *These Things*, I look upon to be merely *trifling* and *uncertain* in this Case; because, supposing the WOMAN *not to breathe*, as has been hinted; How then can she *expire* so much from her LUNGS, as to *move a Feather*, or *infect a Glass*? Or, how can her BREAST have any such a *Motion*, as to move *Water in a Glass*? Considering well, what has been already said, that it is only by *internal Transpiration*, that she draws the *Breath of Life*; which is neither effected by the *Motion* of the BREAST, nor the LUNGS; but rather by a certain obscure and latent

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Motion of the HEART, and the internal Arteries: In such manner, as some *Animals*, living in *Cells of Obscurity*, seem to be refrigerated, or benumb'd and DEAD the whole *Winter-Season*.

BUT in this *Case*, the more certain *Method* is, to try the PATIENT with proper *Sternutatories*, such as are otherways useful in all such PAROXYSMS; for if *alive*, she will be quickly mov'd by *Sternutation*: As when the *Body* begins to send forth a *Cadaverous Smell*, it is a certain SIGN that the *innate Heat* is extinct with the LIFE, and that the *Body* is no more supported by the SOUL. Wherefore the safest and surest way is, not to bury such PERSONS, before the *Expiration of 72 Hours*, reckoning from the beginning of the FIT: Because, if in this Time, which is the CRISIS, or Term of the Circuit of all the HUMOURS in the *Body*, they do not revive, there is no more Room left for *Hopes*.

IN the next place, I come to mark the DIAGNOSTICKS, whereby it may be best distinguished, which of the before-mentioned immediate Causes, gives Rise to the HISTERICK PASSION in any Woman labouring under the same Malady. And, I. IF it proceeds from the Menstruous Blood; in this Condition, the Natural Course must needs be suppress'd, either in whole or in part: And the Difference of the Quality of this BLOOD, is evident from the foregoing Symptoms.

II. IF from too long retain'd SEED; the PATIENT is to be suppos'd regular in her natural Flux, as she is Calid and Sanguine, either from high Living, or want of Exercise: In this the SYMPTOMS are all more severe and dangerous, than in the other Case; and upon the declension of the PAROXYSM, or the Fits going off, a certain HUMOUR, flows from the PUDENDUM, occasion'd by the Constriction made in the WOMB.

III. IF from corrupted Humours, the PATIENT not only Purges regularly, but also enjoys her HUSBAND;

BAND;

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BAND: Hence in this Case, I would conclude that she either labours, or has labour'd under some *Uterine Distemper*, such as a *Satyriasis*, *Pruritus*, *Furor*, *Gonorrhæa*, *Fluor Muliebris*, *Ulcers*, *Impostumes*, a former *Suppression*, or *Irregularity of the MENSTRUUM*, or the like: As also many *Learned Men* agree that a *Præternatural Situation* *, namely, the WOMB'S ascending to the *superior Parts*, compressing the *LIVER* and *DIAPHRAGMA*, and consequently the *LUNGS*, *HEART*, or *STOMACH*, may induce various *SUFFOCATIONS*; Which, I think, is also confirm'd by *Reason* and *Experience*. For——

WHO knows not that the *Ligaments* of the WOMB, may be so relaxed and extended, that it may fall down to the very *KNEES*, as I have seen it? And who may not thence conceive that in the same *Laxity of the Ligaments*, the WOMB may be as well driven upwards by *Winds*, *Vapours*, or too much gross *BLOOD* in the *Ligaments*; or by ungrateful *Odours* approaching the WOMB, as it may also be attracted by pleasant and grateful *Smells* at the *Nose*? Not that I mean here, by the by, that the WOMB is capable of *Smelling*, and therefore shuns disagreeable *Fætors*; but only that its *Spirits* and *Heat*, especially in *Those*, who abound with deprav'd *Humours*, are attracted either way by agreeable *Odours*, or fragrant *Smells*.

NOW in this Case, the WOMB may be plainly found by the *Touch*, ascended in the Form of a round *Ball*; Which however may be easily brought down, and replaced in its *natural Posture*, by any skilful experienced *Hand*, previously well anointed with the *OIL* of *Spike*, *Spikenard*, *White Lillies*, or the like. Again farther, to prevent its *Return*, some nauseous *Smells*, may be apply'd to the *Nose*, or the *Reverse* to

* *Hipp. lib. 1. de morb. mul. Paulus lib. 3. c. 7. Fernel. lib. 6. patkol. c. 16, &c.*

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to the P U D E N D U M ; as also the superiour *Parts* of the Body may be tyed strait with proper *Bands* or *Ligaments*.

BUT more particularly, as to the proper *Diagnosticks* of the imminent P A R O X Y S M , or approaching F I T of *Suffocation*, these are, *Grumblings* in the A B D O M E N , a *Distention* and *Pulsation* in the B A C K and *Hypochondriacks*, a *Weariness* of the whole Body, an *Imbecillity* of the L E G S , *Belching*, *Nauseating*, *Gaping*, a *pale Face*, and a *sad Countenance* ; attended at last with the aforesaid Sense of *Strangulation*, as if the P A T I E N T was a-swallowing a *Ball*, &c. As also I have known *some Women* to have been taken with a long F I T of *Laughter* upon this occasion, *others* with that of *Crying* ; as probably *some* may confusely act both at once.

HOWEVER, It is to be observ'd in this place, that, as the *Distemper* is not equally violent in *All*, nor always attended by the *same*, or the same number of *Symptoms* ; so neither are the F I T S equally long or frequent, but invade and seize the P A T I E N T according to the quick or slow gathering of the *Morbifick Humours*, which are also sooner or later dissolved : Which *Humorous Particles* in our Bodies, like as in intermitting *Fevers*, have their due Times of *Digestion*, *Accumulation*, and *Exaltation* ; which Height as soon as they have arrived to, they suddenly, and as it were in a Moment, break out into *Action* : Or else *These Humours* may lye dormant in the Body, until by some *Procatartick*, or *External Cause*, they are exagitated, and set at *Work*.

NOW this *Agitation* of H U M O U R S depends not only upon the *Course* of the S U N and M O O N , but also sometimes more particularly upon the *Change* of the A I R , and the *Motion* of the S E A . As to the *Solar* and *Lunar Influences* upon the *Animal Machine*, they are already abundantly set forth *, wherefore I

* *Vid.* Sect. III. Chap. 28. 38. Sect. VIII. Chap. 2.

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shall resume Nothing of *them* in this place: And as to the *Efficiency* of the *AIR*, I would observe it to be always most considerable about the *Two Equinoxes*; as at these *Seasons* the most impetuous *Winds* and violent *Storms* happen; and that continually the most severe at *Noon* and *Midnight*; that is to say, when the *SUN* is in our *Zenith*, or in the *Nadir*, viz. in the *vertical Point* over our *Heads*, or the quite opposite under * our *Feet*. These *Changes* however come a little before the *Vernal Equinox*, but follow the *Autumnal*; because of the various *Distances* of the *MOON* in its *Perigæum* and *Apogæum*.

MOREOVER, at these *Seasons*, and indeed at all *Times*, the *AIR* swells or rises highest, at *New* and *Full MOON*, from the conjunct *Power* of both the *Planets*: Hence the diligent *Mariners* and *Husbandmen* always observe the *Weather* to change, and *Winds* to rise upon these *Occasions*; and, not only so, but also, a constant and certain *RECOURSE* of *Winds* and *Weather* to happen at certain *Seasons* of the *Year*; and that from some certain necessary *Natural Cause*, which always acts in the same manner.

As to the *Motion* of the *SEA*, its *Efficacy* upon the *Animal Fabrick*, may be easily comprehended, considering only what is said; together with this *Truth*, that, at all *Seasons*, the *AIR* is highest, and the *Winds* strongest, when the *TIDE* of the *Flood* is at its highest *Ascent*. For as the *SEA* swells, so the *Ambient AIR* in 25 Hours, is twice raised to a considerable great *Height*, from the *Attraction* of the *MOON* approaching the *Meridian*: And the same swelling of the *AIR* must necessarily follow, as often as the *SUN* comes to the *Meridian* of any place, either above or below the *HORIZON*; tho' (as aforesaid) it is always highest at *New* and *Full MOON*: And lowest of all, when the *MOON* is but half *Full*; the

* Goad's *Astrometeorologica*, De *Chales de Art. Navigandi*.

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Planets then drawing each a contrary way: As it is *middling*, during the Time between the dimidiated Orbs of the MOON, and the New and Full MOON *.

CONSIDERING then that the *Ambient AIR* and the surrounding SEA are both *fluid Bodies*, and that the *Changes* of the ONE agree so exactly with the *Tide* of the OTHER, we may rationally conclude, that they are both (in a great measure) subject to the same LAWS of *Motion* †. Hence it is, that, the great *Physician* || says, that the *Fluxes* and *Refluxes* of both these ELEMENTS are so ordain'd, by the Wise *Council* of the Almighty CREATOR, to keep them from *Stagnations* and *Corruptions*, which would be noxious to all *Creatures*, that by these means are preserved in a better Condition. Which is also confirm'd by *Experience*, from that, in clear and open places such *Valetudinarians* as are ready to *Die*, recover their *Health*, and the *Soundest Constitution* in moist close places, grows SICK.

FROM the whole, it is evident, that the *Motions* of the AIR at the flowing of the SEA, upon the New and Full MOON, and in the *Aequinoxes*, change the *Fabrick* of the *Animal Bodies*: But these *Changes* are always most remarkable in those of weak and sickly *Constitutions*; whereas those of Strong and Healthy Bodies more readily repel or evade their *Influences*. Hence it is that our Bodies so much *Sympathize*, and so manifestly correspond with the *Cælestials*, as the *Experience* of a great many Ingenious Authors testify *: And hence again it is that the HYSTERICK, no less than any other PATIENT,

* *Gassendus's Philosoph.*

† *Newton's Princip. lib. 3.*

|| *Mead de Imper. Sol. & Lun. Cap. 1.*

* *Bagl. de Experiment. circa Sanguin. Apul. de virtut. Herbar. c. 9. & 65. Helmont. de Asthm. & Tuss. Sect. 22. Floyer. de Asthma, pag. 17, &c.*

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keeps Time strictly with these Superiour Bodies, as the Register of a vast many Examples, and even daily Experience it self teaches for Truth. Now having thus far prosecuted the Diagnosticks, as well with respect to the Times and Seasons of the PAROXYSMS, as to the Signs and Symptoms of the Distemper, I come at length to —

THE Prognosticks of this Uterine SUFFOCATION, which I shall but briefly hint upon; and FIRST, observe, that where the HUMOURS overcharge the Body, and are implicated among themselves; in this Case the FITS do not always keep their Legitimate Times, nor their proper Insults, but are sometimes more frequent, more sharp, and more diuturnal; in like manner, as a Concourse of WINDS excites the most violent STORMS, according to the Poet *,

“ *Unda Eurisque Notusque ruunt, creberque procellis*

“ *Africus, & vastos volvant ad Littera Fluctus :*

So a Concourse and Confluxion of HUMOURS, must needs aggravate the Distemper; but more especially, when the afflicted PATIENT is taken with a Complication of Distempers, such as when the HISTERICK FIT is join'd with a Syncope, or severe Convulsions, &c. then the Case is most dangerous.

————— “ *Nam corpore in Uno*

“ *Frigida cum Calidis Pugnant, Humentia Siccis,*

“ *Mollia cum duris, Sine pondere habentia pondus.*

These Things, consisting in the Corruption and Inflammation, or in the Quantity and Quality of the peccant

* *Aeneid. I.*

† *Quid. Met. Lib. I.*

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HUMOURS, concur with the other *Causes*, above defin'd, that the *Circulations* of the *Distemper* are either shorter or longer, more frequent or more rare, or more safe or more dangerous in the Event.

SECONDLY, I observe in this place, that, if the *Distemper* does not carry off the *PATIENT*, as often happens in the foregoing *Condition*, it commonly degenerates at last into an *Apoplexy*, or *Palsy*, *Stupidity*, or deep *Melancholy*, &c. Wherefore I come now finally to treat of the Method of its Cure; which is two-fold, One in the *Access* or *FIT*, and another in the *Interval*. Then as to the First —

IN the *FIT*, *Revulsive* and *Repressing Remedies* are most apposite, together with *Corroboratives* for the *HEART* and *VENTRICLE*, as well as for the *WOMB* it self. But because *Revulsives* are of many and different kinds, they are to be discreetly us'd, according to the Nature of the *Cause* from whence the *Evil* proceeds: For if suppressed *BLOOD* be the *Cause*, in that Case, *Galen* agrees with *Hippocrates* that an *Inferiour Vena-Section* is convenient, and that even tho' a *Syncope* join the *SUFFOCATION*, because the One is but the Effect of the Other*: Remembring always that such *Bleedings* must be done with great Prudence and Caution, because of the present *Prostration* of the *Strength* and *Spirits*, and *Refrigeration* of the *PATIENT's* whole Body.

WHEREAS if the *PAROXYSM* proceeds from *venenated SEED*, or depraved *Humours*, no *VEIN* is to be open'd; but instead of That, I would lay the *Woman* supine in her *BED*, for breathing the freer, and loose all her *Laces*, *Garters*, &c. Then if Strong *Sternutatories*, *Fætid Smells*, *Vellication* of her *Ears*, *Nostrils*, *Pilorumve Pudendi*, did not help her *Condition*; I would use *dolorifick Ligatures*, and *Frictions*

* *Hipp. com. 4. Acut. tex, 23. 24. 25. & 82. Galen. in Comm.*

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of THIGHS, LEGS, and FEET; or apply Cupping Glasses without Scarification to the THIGHS and GROIN it self: As also proper Liniments, Clysters, Suppositories, Pessaries, &c. are convenient Means: And sometimes Suffumigations of GALBANUM, ASSA-FOETIDA, Old Leather, Cloth, Sulphur, Partridge Feathers, Horse-Tetters or Warts, &c. Or (which is reckon'd Best of all) a few of the PATIENT's Hairs of her Head, burnt, and held to her NOSE. Or, while I should often tickle the NOSTRILS with a Feather, or my Finger dipp'd in the sharpest Vinegar, Oleum Succini, or the like, I would anoint the PALLAT with Triacle, Mithridate, or such other Things dissolv'd in pleasant WINE.

HOWEVER, in such Cases, as well as in all others, *à mitioribus adhibitis, progrediendum est ad valentiora*; I say, we are to begin with the more gentle, and proceed gradually to the more strong and powerful REMEDIES; using all proper Means with the utmost Prudence and Discretion, and that only according to the absolute Necessity and imminent Danger of the incident Case. Now moreover, I would add for such as lose both PULSE and BREATH, that some of the above REMEDIES are not only requisite; but also, according to the excellent *Horatius Augenius*, a little generous WINE with Nutmeg, Cinnamon and Cloves, adding five Grains of MUSK, is altogether proper for this PATIENT*: Tho' for others, who have not quite lost all Sense and Motion, nothing is perhaps more pernicious than the USE of such Odoriferous Matters, since I have known several Women to have been immediately suffocated, even by the very Smell of MUSK, CIVET, AMBER, &c. But when the Sick PATIENT lies (as above) for dead, if such Odours can excite the WOMB, they can likewise move the Arteries, and give Hopes of Recovery;

* Lib. 12. Tom. 1.

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upon which occasion also, I would apply hot *Seer-Cloths* to the *Regions* of the *HEART* and *WOMB*: Or, if I suspected the *HEAD* to abound with *frigid Humours*, I would moreover apply *Vesicatories* behind the *EARS*, or an *Issue*, or *drawing Plaister* to the *NAPE* of the *Neck*, always cherishing the *STOMACH* with proper *Fomentations*: As also according to some, the *Hoof* of an *ELK*, is a present *REMEDY* in all such *Suffocations* or *FITS* of the *Mother* *.

BY the above-mentioned, which are all the most prevalent *Means* in the *ACCESS*, we will now suppose the *PATIENT* to be *recover'd*; in which *Case*, the next step needful, is to guard against, and prevent the *Return* of the *FIT*, and consequently to *Cure* the *DISEASE*; which can only be effected by removing the *Cause*, whatever it may be: And *This*, in my *Opinion*, may be most effectually perform'd in manner following, *viz.* —

IF the *Distemper* proceeds from the *suppressed BLOOD* or *MENSTRUUA*, *This* is by proper *Means* to be reduced to its *Natural Course* and *Condition*. If from a retain'd *Seminal Matter* in the *Uterine Vessels*, the *Cure* depends chiefly upon a proper *Regimen* of *Diet* and *Exercise*; frequent gentle *Purges*, and repeated inferiour *Vena-Sections*: Whereas if already collected and venenated in the *WOMB*, and the *Body* consequently *refrigerated*, no *VEIN* may properly be touch'd or open'd; but in this *Case*, as if the *Evil* proceeded from *vitious putrid HUMOURS*, it is to be evacuated in the same manner, as in other *Conditions* of the *humid Intemperature* of the *WOMB*; always corroborating and fortifying the more affected or debilitated *Parts*.

* *Apel. Menab. de Alce C. 10. Senert. l. 4. P. 2, S. 3. C. 4.*

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NOW this Method of Cure, in short, being taken from the wisest of the *Ancients* *, I shall farther add *one* singular and essential Step towards the perfecting of it; namely, if it be so, that the most severe and dangerous *Symptoms* of this *DISTEMPER* proceed from the *Retention* of the *vitiated SEED*; then of Course and without Controversy, the *HYSTERICK PASSION* must needs be most familiar to *WIDOWS* and *marriageable VIRGINS*; to whom I must finally say, *Let them Marry*.

Si tales etenim pruriginosas, Connubio destinari contingat, ac Semen subdito virili Pessulo elici, in usumq; procreandæ Sobolis depromi, protinus illas efflorescere videas, ac faciem roseo, nitidq; colore perfundi, blandas denique atque Amabiles, minuscq; tetricas ac morosas. Quod etiam docet GALENUS, Exemplo viduæ cujusdam, quæ multo Semine effuso, à Symptomatibus integrè est liberata †. Itaq; dico, tales dissueta maturæ viro sunt tempestivè elocandæ. In fine, MARRIAGE will very much help such indisposed Persons, according to the Wise Judgment, Advice and Direction of the best Antient WRITERS.

CONCLUSION.

BEFORE I close this finishing Chapter, I must entreat the *READER's* Patience, and finally observe (by way of *Recapitulation* upon it, which will also serve to Answer the same End upon divers places interspers'd throughout this whole *Book*) that I am very Sensible before hand, that some considerate

* *Hipp. Aet. Paul, Avic, Gal. Herc. Sax. Rod. Cast. Senert. &c.*

† *Lib. 6. Loc. Aff. cap. 5.*

READERS, even among the *Learned* themselves, will be ready to stop or cavil at some of my *Sentiments*, and say, *Quo te Mœri Pedes? Et quæ te Dementia cepit?*

I know that they deny, with the *Peripatetick Aristotle* *, the Existence of the *Muliebrian SEED*. Nay, I farther know, that, *this* is not all, which they will object against; for the *Four Galenick HUMOURS* will be as hard to digest. But as I leave all *Men* to think and judge for themselves, without differing with any for dissenting from me in *Opinion*; so I know that *Men* of *Probity* and *Ingenuity* will allow me the same *Privilege* and act in a suitable Manner: Whereas I doubt not but some *Momus*, or *Zoilus*, or some *Member* of the *Body* of the *Sophistical SCIOLOGISTS* will rise up, and pronounce me either altogether *Ignorant*, or an unjust *Vilifier* of the reigning *Modern Opinions*, by laying down some *Authentick Positions* of the *ANTI-SCIENCES*.

THIS cannot more certainly befall me, than I expect it; wherefore, I am not only in some measure upon my *Guard*; but also otherways resolved to hear, and even bear such *Controversial Wranglings* with *Patience*: Which I need think the less of doing, or suffering with *Pleasure*, considering the many *Glorious Examples* already set before my *Eyes* of *Those* who have deserved the greatest *Applause*, and the *Best* of *Mankind* in all *Ages*. To pass by some living *MONUMENTS* of *Detraction*, who are at this *Day* universally acknowledged to be *Eminent* and *Excellent Men*; have not some of the best *Authors* that ever wrote been unjustly scourged by the *black Tongues*, and even scandaliz'd by the *Satyrick Pens*, of their *COTEMPORARIES*? And are not the same *SUFFERERS*, I mean their *Names* and *Memories* immortaliz'd at this *Time*, through all *Nations*? Besides, in short, will they not continue to be so through out all succeeding

* L. 1. de Gen. Animal. Cap 20.

Generations, for their essential Helps and ingenious Discoveries in the Noble and Heavenly Art of PHYSICK? Moreover, have we not too many Instances of THIS, to go no farther, in England, even too well known to require a Repetition?

HOW vain then would it be in me to hope to escape the common Fate of all WRITERS in general? No, before ever I put Pen to Paper, I plainly foresaw, that, in this degenerate Age, no honest Man could safely subscribe to the genuine truth of Things, without suffering by publick Malice, under the Character of being reckon'd either an Ignorant or an obsolete SINGULARIST.

HOWEVER, yet, as I would willingly avoid being ranked among litigious Disputants, so I have taken Care (if it be possible) to mitigate the Censure, by not insisting too stiffly upon any TOPICK, which may be suppos'd to tend more to curious Speculation, than to real Practice in our ART: Neither have I set off any Hypothesis with recommendatory Glosses, nor other fine Embellishments, serving more for Ornament than Use.

BUT that I may not seem at last altogether to give up, what I have been advancing, however in modest Terms and upon authentick Authorities, I ingenuously answer and confess, that, I have in diverse respects and in sundry places in this BOOK, spoke my Mind freely, and impartially, however without Prejudice, and that sometimes also contrary to the Opinions of many famous WRITERS in Vogue, as well Ancient as Modern; by which means, I may perhaps have disgusted some, otherways, most Judicious READERS: However, considering the different Grounds upon which Men commonly form their Judgment of AUTHORS, if I have but the Happiness to please in some Things, I have all that I am ambitious of.

WHEREFORE, as it was neither for Applause nor Reputation-sake, but merely for the Common Good of Mankind, that I undertook to write modestly, so I resolved at the Beginning, that, neither Malice nor

Envy should deter me from publishing what is *True*, and, to my certain Knowledge, confirmed by *Experience*. I have carefully perus'd other Men's *WORKS*; *Moderns* as well as *Ancients*, to gain the Knowledge and discover the *Truth of Things*, and I gratefully acknowledge what *Benefit* soever I have reaped from them, whose *NAMES* I am not ashamed to affix to this *BOOK*, by the *Help* of their elaborate and ingenious *WRITINGS*: Desiring thereby to convince the *REVOLVER*, that I neither reject the hard *Labours* of the *Ancients*, nor despise the laudable *Endeavours* of the *Moderns*, much less would I be thought to decry or find Fault with any particular *Performance*; especially considering that I meet with none so empty, but that I get something by, which I improve to my own Advantage.

BUT as far as I have found them mistaken, since *Mortal Eyes* cannot see beyond their *HORIZON*, nor the best of Men exceed the natural Limits of *human Frailty*, I have thought it my *Duty* to forewarn *POSTERITY* of their *Mistakes*, not only according to the laudable *CUSTOM* of the *Ancients*, but also according to my plain *Notion* of the genuine Nature of true *CHARITY*; which I think consists not in contemning, detracting and calumniating *one another*, but rather in cleansing *SCIENCES* from the *Dross* of *Errors*; that so the *Right Way* may be pay'd to our *Successors* by a continued *Series* of Time, which may be effectually done by *Many*, that cannot possibly be accomplished by *One*, because of the *Brevity* of *LIFE*.

UPON the whole, it is most certain that *TRUTH* is known *but of a few*; whereas false *Opinions* go current in the Stream with the rest of the World: Nay, *TRUTH* scarce yet ever carried it by *Vote* in any respect; insomuch, that the most evident Testimonies of *Sense*, too often yield place to imbib'd *Opinions*, and Men blindly reject the manifest Evidence of their own

The Conclusion.

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own Faculties, by which Truth in many Cases is only to be discover'd: And indeed I know how hard it is otherways to enquire exactly into the common Truth of Things, so as to give a *Satisfactory Demonstration*, or a general Satisfaction to All: Which notwithstanding, I verily believe that the *Sons of ART*, who know the *Principles* and *Power* of *NATURE*, and understand her various *Operations* upon all *BODIES*, by the means of her inferiour *Agents*, the four *ELEMENTS*; and such as have attain'd any competent *Knowledge* in the *SPAGYRICK ANATOMY* of Things, especially of *Fluids*, *Water*, *Wine*, &c. will be at no great Loss to conceive the *Probability* of both the *one* and the *other* above-mentioned *HYPOTHESIS*.

ACCEPT then, in fine, *Benevolent READER*, *This* short and plain *Performance* of *PHYSICK* and *MIDWIFERY*; which, if it should not happily answer to your *Expectation*, I would fain have you believe, that it will far less correspond with my *WISH*. If then any Thing be found *useful* or *acceptable* in it, you are to ascribe that to *GOD*, the *Author* of all *Wisdom*; as you may impute what is otherways perform'd, to *Man's* Understanding and Practice bleis'd by *GOD*: Therefore being every where mindful of *Humanity*, read, revolve, enjoy, and correct; reflecting in the *Interim*, not so much upon the little that I have done, as upon that which others have not hitherto perform'd concerning the same Subject.

I could with *Pleasure* have continued *The Performance*, and, according to my *Design* at the *Beginning*, have added two *SECTIONS* more, viz. *One* upon the *Symptoms* and *Diseases* of the *WOMB* and the *Passages*; the other upon the various *Symptoms* or *Accidents*, relating to the *MENSTRUOUS* and other *Uterine Fluxes*: But as the *WORK* has already by far exceeded the *Limits*, which I design'd it

at first, I shall here for the present Time fix my
PEN.

I Pray GOD, in short, the *Fountain of Life, and Source of all Science*, that HE may enable others to conceive what has been said, better than I have been capable to explain; and grant that the *Fruit of my LABOUR* may conduce to the *Health and Preservation of all good WOMEN and their CHILDREN*: All finally, upon the whole Work, redounding to the eternal *GLORY* of his own most *Holy Name*.

F I N I S.





AUTHORS *Names quoted in this
Work, disposed Alphabetically.*

A.

Æ Gineta
Aetius
Agrippa Corn.
Albertus Magnus
Alcinous
Alexandrinus Jul.
Anaxagoras
Antony St.
Apollonius
Apuleius
Aquinas Thom.
Areteus
Aristotle
Arnoldus de villa Nova

Augenius
Augustin St.
Aurelianus Cæl.
Averroes
Avicenna

B.

B Aglivius
Bartholinus
Bellini
Benedictus Alex.
Blancard
Boerhaave
Boetius
Bonaciolus

Bottonus

Bottonus
Brassavolus
Burnet Thom.

C.

C^Ardanus
Cato
Catullus
Celsus
De Chales
Chamberlain
Cicero
Claudianus
Cordæus
Cyprian St.

D.

D^Aventer *DED*
Democritus
Diocles *cles*
Diodorus
Diogenes
Donatus Marcel.

E.

F^Mpedocles
Etmullerus
Eustachius

F.

F^Abricius Gul.
Fab. d' Aquap.
Fallopius
Favorinus
Fernelius
Florentinus Nichol.
Floyer Sir John
Forestus

G.

G^Alen
Gamma
Garofanzo
Gassendus
Gellius
Goad
Guillaume de Paris

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H^Arris Dr.
Harvey
Heister
Helmontius
Heraclides
Hercules Saxon.
Heurnius

Heurnius
Hippocrates
Hoffman
Hollerius
Homer
Horace
Horstius
Howel

J.

J Erome St.
Johannes Anglicus

L.

L Actantius
Langius
Laurentius And.
Levin. Lemnius.
Licetus
Linus
Lucilius
Lucretius
Lusitanus

M.

M Acrobius
Manilius
Marcellus
Marcus Marci
Mauriceau
Mead Dr.

Menabeus
Mercatus
Mercurialis
Montanus
Moor Sir Thomas
Morgagnus

N.

N ewton Sir Isaac

O.

O Vid

P.

P Alladius
Panarolus

Paræus
Paschal
Paulus Jurisconsultus
Persius
Pfizerus
Pindar
Pinaeus
Plato
Platerus
Plautus
Pliny
Plutarch
Pontanus
Proclus

Pytha

Pythagorās

R.

R Albanus
Ranchinus

Rhases

Riolanus

Riverius

Rocherus

Rodericus à Castro

Ronflæus

Rufus

Ruffius

Ruyfch

S.

SChenckius

Sennertus

Solomon King

Soranus

Spigelius

Sprengel Dr.

Sydenham

T.

T Erentius

Thuringius

Trincavellius

Tulpius

U.

U Lmus Marc. Ant.

Valeriola

Vallesius

Veltbryfius

Vesalius

Virgil

Vives

W.

W Ierus

Z.

Z Ebizius

Zacch. Paulus

Courteous Reader, having been sometimes call'd from the
Inspection of the Press, there may be some literal and a few
verbal Mistakes; which as the Sense is not perverted, I hope
you will candidly pass by.

Adieu.

